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MEMORANDUM

DATE: September 19, 2024

TO: Jeff Stone, Partner, Diamond Construction

FROM: Kat Hughes, Senior Environmental Planner
Amanda Durgen, Principal

SUBJECT: CEQA Categorical Exemption for the Oak Hill Road Project, Lafayette, CA

LSA has prepared this memorandum to document the Oak Hill Road Project's (project) qualification for a Class 32 Categorical Exemption (CE) pursuant to Section 15332 of the California Environmental Quality Act (CEQA) Guidelines.

PROJECT LOCATION AND EXISTING CONDITIONS

The project site is at 1001 Oak Hill Road in Lafayette, California, Assessor's Parcel Numbers 243-030-033-1, 243-030-038-0, 243-030-020-8, and 243-030-041-4. The 1.21-acre project site is within the downtown core of Lafayette, approximately 300 feet north of Mount Diablo Boulevard on Oak Hill Road, and approximately 1,000 feet from Bay Area Rapid Transit's (BART) Lafayette Station. The project site slopes from north to south. The site is zoned Special Retail Business (SRB) and currently consists of one three-story commercial/retail building (1009 Oak Hill Road, approximately 4,700 square feet), one single-story commercial/retail building (1003 Oak Hill Road, approximately 2,725 square feet), one two-story commercial/retail building (1007 Oak Hill Road, approximately 1,645 square feet), and asphalt parking lots surrounding the buildings. Landscaping is present around and between the buildings and along the Oak Hill Road frontage. The northern boundary of the project site is adjacent to the East Bay Municipal Utility District's (EBMUD) Mokelumne Aqueduct. State Route 24 (SR-24) and the Oak Hill Road offramp are just north of the EBMUD aqueduct. An apartment building and commercial developments are west of the project site, commercial uses and Mount Diablo Boulevard are south of the project site, and commercial uses and Oak Hill Road are east of the project site (Figures 1 and 2, provided in Attachment A).

PROPOSED PROJECT

The Oak Hill Road Project would construct a 7-level, 172,399-gross-square-foot multifamily building containing 90 residential condominiums and 2,000 square feet of commercial use, situated in the downtown retail district of downtown Lafayette. The structure would include a below-grade parking garage with 164 parking spaces with 151 spaces provided by use of a mechanical/stacked parking system. The maximum height of the building, including the subterranean parking, would be 82 feet. The proposed project would result in a total disturbed soil area of 1.21 acre. The project would require the demolition and removal of all existing buildings and removal of 18 protected trees.

The project would include rooftop solar panels and would be equipped with bioretention planters along the face of the building on Oak Hill Road. Electrical vehicle charging would be provided as required by applicable codes, and some bicycle parking would be provided near the building's lobby and entry locations. The proposed project would use electricity for all energy needs and would not include natural gas service. The proposed project does not include any type of fireplace devices in the units.

Construction activities are anticipated to take place between October 2025 and December 2027. Construction of the proposed project would require the demolition of approximately 9,070 square feet of existing buildings and would require the export of 4,000 cubic yards of soil. In addition, construction of the proposed project would use Tier 4 Final construction equipment and graders and dozers would be equipped with Level 3 diesel particulate filters.

CATEGORICAL EXEMPTION

Under *State CEQA Guidelines* Section 15332 (Class 32): In-Fill Development Projects, a project, characterized as infill development, qualifies for an exemption under CEQA if the project (1) is consistent with the general plan and zoning ordinance; (2) occurs within city limits on a project site of no more than 5 acres substantially surrounded by urban uses; (3) is located on a site that does not have value as habitat for endangered, rare, or threatened species; (4) would not result in any significant impacts relating to traffic, noise, air quality, or water quality; and (5) is adequately served by all required utilities and services. This categorical exemption is applicable to the proposed project, as discussed below.

1. The project is consistent with the applicable general plan designation and all applicable general plan policies as well as with applicable zoning designation and regulations.

No amendments to an adopted planning document would be required for implementation of the proposed project. The project site is classified as Special Retail Business District (SRB) on the City of Lafayette's (City) Zoning Map. Residential dwelling units are permitted on upper floors along Mount Diablo Boulevard and on all floors elsewhere in the district. The project site is not along Mount Diablo Boulevard, so residential uses are allowed on all floors. The project site is designated as Downtown Core on the City's General Plan Land Use Map and Downtown Retail on the Downtown Specific Plan. The Downtown Core and Downtown Retail land use designations accommodate residential uses. Therefore, the proposed project is consistent with the zoning and land use designations for the project site.

2. The proposed development occurs within city limits on a project site of no more than five acres substantially surrounded by urban uses.

The 1.21-acre project site currently consists of three commercial/retail buildings and parking at 1003, 1007, and 1009 Oak Hill Road. As shown on Figure 1, the project site is in an urbanized area primarily characterized by commercial, retail, and residential uses. The project site is bounded to the north by the Oak Hill Road exit from eastbound SR-24 and the SR-24/Oak Hill Road underpass, to the south and east by commercial and retail uses and the intersection of Oak Hill Road and Mount Diablo Boulevard, and to the west by other residential, commercial, and retail buildings. Therefore,

the proposed project occurs within City limits on a project site of no more than 5 acres substantially surrounded by urban uses.

3. The project site has no value as habitat for endangered, rare, or threatened species.

Biological Resources

A Biological Resources Constraints Evaluation[1] (Attachment B) was prepared to describe site habitat conditions, identify any special-status biological resources present on the project site, determine what impact the proposed project may have on these resources, and provide recommendations, as necessary, to address the requirements of CEQA.

LSA conducted a site visit, and reviewed aerial imagery (using Google Earth) as well as lists of special-status plant and wildlife species potentially occurring on or in the vicinity of the project site. Sources queried to compile the list include the California Natural Diversity Database administered by the California Department of Fish and Wildlife, the California Native Plant Society's Rare Plant Inventory, and the U.S. Fish and Wildlife Service Information for Planning and Consultation (IPaC) system for the *Walnut Creek* and *Las Trampas Ridge* United States Geological Survey 7.5-minute quadrangles (see Attachment B of the Biological Resources Constraints Evaluation). The City's Municipal Code and General Plan were also reviewed for any relevant policies pertaining to biological resources.

Results. As described above, the site has previously been developed and contains three buildings, parking areas and concrete pathways and stairs connecting the buildings. Landscaping is present around the buildings. The majority of this landscaping consists of ornamental trees, shrubs and groundcovers. Several native trees are present in the landscaped areas including two specimen valley oaks (*Quercus lobata*) with estimated 40-inch trunk diameters and smaller coast live oaks (*Quercus agrifolia*). The large redwood tree was planted as part of site landscaping and is not native to the site.

The proposed project would result in the removal of 18 trees.[2] Because the project site is within a commercial zoning district, all 18 of these trees meet the criteria of protected trees under the City's Tree Protection Ordinance, as specified under the City's Municipal Code (Section 6-1702(Q.8.).[3]

Wildlife likely to be present are common species adapted to urban areas including mourning dove, Anna's hummingbird, California scrub jay, house finch, California towhee, opossum, and raccoon.

> ***Special-Status Species.*** There are no aquatic features on the property. Due to the existing development on the project site, there is no suitable habitat on or in the vicinity of the site for any of the special-status species that occur in the central Lafayette area (see species lists in Attachment B of the Biological Resources Constraints Evaluation).

1 LSA. 2024a. Biological Resources Constraints Evaluation for the 1001 Oak Hill Road Project. September.
2 Bob Peralta Arbor Consulting. 2022. Tree Evaluation Arborist Report.
3 City of Lafayette Municipal Code Section 6-1702(Q.8.)

Existing project area landscaping, trees, and structures provide suitable nesting habitat for birds protected under Sections 3503, 3503.5, and 3513 of the California Fish and Game Code (CFGC) and the federal Migratory Bird Treaty Act (MBTA). If tree removal, clearing, and/or grading takes place during the nesting season (February 1 through August 31), direct impacts to nesting birds protected under the CFGC and MBTA could occur. The potential for indirect impacts (e.g., nest abandonment due to construction-related disturbance) is expected to be low due to the urban setting and existing levels of disturbance and ambient noise from automobile and pedestrian traffic. Bird species most likely to nest in the vicinity of project activities are tolerant of disturbance and will continue nest attempts if adequate buffers are provided.

The 18 trees to be removed require a Category II permit as specified under the City's Municipal Code, Section 6-1707. As stated above, these 18 trees meet the "protected tree" standards under the City's Tree Protection Ordinance. The 18 protected trees consist of 4 evergreen pears, 3 liquidambar, 5 valley oaks, 3 coast live oaks, 1 southern live oak, 1 podocarpus, and 1 blue spruce.

Regulatory Compliance Measures. The project will comply with the following regulatory compliance measures, which address project consistency with CFGC Sections 3503, 3503.5, and 3513 and the MBTA (nesting birds):

1. If work begins between February 1 and August 31, a qualified biologist will conduct a preconstruction survey for nesting birds in the project site and 100 feet immediately adjacent to the project site no more than 14 days prior to the start of construction.

2. If no nesting activity is observed, work may proceed as planned. If any active bird nests are discovered within the project site or within 100 feet, a qualified biologist will evaluate the potential for work activities to disturb nesting activities, and establish protective buffers, if necessary, based on this evaluation.

3. Removal of active nests will be avoided until it is determined by a qualified biologist that nesting is complete and the young have fledged, or that the nest has failed. If work is undertaken while a nest is active, a qualified biologist will be on-site during construction activities to monitor nesting activity. The biologist will have the authority to stop work if it is determined the project is adversely affecting nesting activities.

The project will comply with the following regulatory compliance measures, which address project consistency with the City's Tree Protection Ordinance, Section 6-1707.

1. A Category II permit under Sections 6-1707 of the City's Tree Protection Ordinance will be obtained by the project applicant prior to the removal of a protected tree.

2. For each six-inches or its fraction of the diameter of the tree to be removed, two 15-gallon trees will be planted. Each replacement tree will be:

    a. The same genus and species as the removed or destroyed tree; or

b. An alternative species approved by the Director.

3. If the property associated with the development application cannot accommodate a replacement tree, as a condition of the permit, the applicant will make an in-lieu payment of an amount set by resolution by the City Council for each 15-gallon replacement tree. The in-lieu payment will be used by the city for a tree education and planting program.

The proposed project would be consistent with CFGC Sections 3503, 3503.5, and 3513, the MBTA (nesting birds), and the City's Tree Protection Ordinance; therefore, it is not anticipated to have any significant impacts on sensitive species or habitats, wildlife movement, or other sensitive biological resources covered under local or regional conservation plans or ordinances. For the reasons stated above, the project site would not have value as habitat for endangered, rare, or threatened species.

4. Approval of the project would not result in any significant effects relating to traffic, noise, air quality, or water quality.

Traffic

LSA prepared a Transportation Impact Analysis[4] (TIA, Attachment C) for the proposed project at the direction of the City of Lafayette Transportation Program Manager.

The TIA evaluates existing roadways, signalized intersections, parking, pedestrian and bicycle facilities, and transit services, and provides a trip generation analysis and a safety analysis.

Trip Generation. The trip generation of the proposed project was calculated by applying the trip generation rates for Land Use Code 221 (Multifamily Housing – Mid-Rise) and Land Use Code 822 (Strip Retail Plaza) from the Institute of Transportation Engineers (ITE) 2021 *Trip Generation* Manual, 11th Edition.. Table A summarizes the project trip generation.

Table A: Project Trip Generation

Land Use	Size	Unit	Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Trip Rates[1]									
Multifamily Mid-Rise		du	4.54	0.09	0.28	0.37	0.24	0.15	0.39
Strip Retail Plaza		tsf	54.45	1.42	0.94	2.36	3.30	3.29	6.59
Project Trip Generation									
Multifamily Mid-Rise	90	du	409	8	25	33	22	13	35
Strip Retail Plaza	2.000	tsf	109	3	2	5	7	6	13
Total			518	11	27	38	29	19	48
Existing Trip Generation									
Strip Retail Plaza	9.070	tsf	494	13	8	21	30	30	60
Net Trips (Project - Existing)			**24**	**(2)**	**19**	**17**	**(1)**	**(11)**	**(12)**

Source: Compiled by LSA (2024)

[4] LSA. 2024b. Transportation Impact Analysis for the 1001 Oak Hill Road Project. September.

Table A: Project Trip Generation

Land Use	Size	Unit	Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total

[1] Trip rates from the Institute of Transportation Engineers (ITE) *Trip Generation Manual*, 11th Edition (2021).
Land Use Code 221 - Multifamily Housing (Mid-Rise) - Between 4 and 10 Levels
Land Use Code 822 - Strip Retail Plaza (<40k) - less than 40,000 square feet of gross leasable area
du = dwelling unit
tsf = thousand square feet

The proposed 90 condominium units could generate approximately 409 daily trips, including 33 trips in the a.m. peak hour (8 inbound and 25 outbound) and 35 trips in the p.m. peak hour (22 inbound and 13 outbound). The 2,000-square foot commercial use could generate approximately 109 daily trips, including 5 trips in the a.m. peak hour (3 inbound and 2 outbound) and 13 trips in the p.m. peak hour (7 inbound and 6 outbound).

The existing 9,070 square feet of retail uses generate approximately 494 daily trips, including 21 trips in the a.m. peak hour (13 inbound and 8 outbound) and 60 trips in the p.m. peak hour (30 inbound and 30 outbound).

The proposed project is anticipated to generate a net increase of 24 daily trips, including a net addition of 17 trips during the a.m. peak-hour (-2 inbound and +19 outbound) and a net reduction of 12 trips during the p.m. peak-hour (-1 inbound and -11 outbound). However, to present a conservative estimate of trip generation (and distribution and assignment) for the proposed project, no trip reductions were applied for the existing uses. In addition, no trip reductions were applied for the anticipated pedestrian interactions between the proposed project and the high-quality transit, commercial, institutional, and educational land uses adjacent to the project site. Therefore, the proposed project trips are expected to be lower. Additional level of service analysis at the study intersections is not necessary as the project is anticipated to generate fewer than 100 peak hour trips and would not result in a deficiency.

VMT. CEQA documents must evaluate transportation impacts based on vehicle miles traveled (VMT), consistent with Senate Bill 743. To help aid lead agencies with Senate Bill (SB) 743 implementation, the Governor's Office of Planning and Research (OPR) produced the Technical Advisory on Evaluating Transportation Impacts in CEQA that provides guidance about the variety of implementation questions they face with respect to shifting to a VMT metric. Per OPR's guidance, VMT is the most appropriate metric to evaluate a project's transportation impact, and OPR recommends tour- and trip-based travel models to estimate VMT. Additionally, OPR advises that where a project replaces existing VMT-generating land uses, if the replacement leads to a net overall decrease in VMT, the project would result in a less-than-significant transportation impact.

In their *Growth Management Program Implementation Guide*[5] (GMP Implementation Guide), the Contra Costa Transportation Authority (CCTA) provide recommendations for VMT analysis

[5] Contra Costa Transportation Authority (CCTA). 2021. *Growth Management Program Implementation Guide.* Website: https://ccta.net/wp-

methodologies, as well as guidance for member jurisdictions to develop their own VMT analysis methods, metrics, and thresholds of significance. The City of Lafayette has chosen to follow the CCTA-provided methodologies, as described in Appendix F of the CCTA GMP Implementation Guide.

The CCTA methodology for VMT analysis includes five screening criteria that can be applied to determine whether projects must conduct VMT analysis. The five criteria are discussed below, and a determination regarding whether the proposed project meets the criteria is provided.

1. **CEQA Exemption**. Any project that is exempt from CEQA is not required to conduct a VMT analysis.

   The CEQA Exemption Screening Criteria is met.

2. **Small Projects**. Small projects can be presumed to cause a less-than-significant VMT impact. Small projects are defined as having 10,000 square feet or less of nonresidential space or 20 residential units or less, or otherwise generating less than 836 VMT per day.

   The Small Project Screening Criteria is not met.

3. **Local-Serving Uses**. Projects that consist of Local-Serving Uses can generally be presumed to have a less-than-significant impact absent substantial evidence to the contrary, since these types of projects will primarily draw users and customers from a relatively small geographic area that will lead to short-distance trips and trips that are linked to other destinations.

   The Local-Serving Uses Screening Criteria is not met.

4. **Projects Located in Transit Priority Areas (TPAs)**. Projects located within a TPA can be presumed to have a less-than-significant impact absent substantial evidence to the contrary. This exemption would not apply if the project:

   a. Has a Floor Area Ratio (FAR) of less than 0.75;

   b. Includes more parking for use by residents, customers, or employees than required by the lead agency (if the agency allows but does not require the project to supply a certain amount of parking);

   c. Is inconsistent with the applicable Sustainable Communities Strategy (SCS) (as determined by the lead agency, with input from the Metropolitan Transportation Commission (MTC)); or

   d. Results in a net reduction in multi-family housing units

content/uploads/2021/08/GMP_Implementation_Guide_FINAL_02172021.pdf. Accessed September 12, 2024.

The Projects Located in TPAs Screening Criteria is met; the project is located 0.18 mile from the nearest BART station.

5. **Projects Located in Low VMT Areas**. Residential and employment-generating projects located within a low VMT-generating area can be presumed to have a less-than-significant impact absent substantial evidence to the contrary.

   A low VMT area is defined as follows:

   a. For housing projects: Cities and unincorporated portions within CCTA's five subregions that have existing home-based VMT per capita that is 85% or less of the existing County-wide average.

   b. For employment-generating projects: Cities and unincorporated portions of CCTA's five subregions that have existing home-work VMT per worker that is 85% or less of the existing regional average.

   The Low VMT Area Screening Criteria is not met.

The proposed project meets the CEQA Exemption and TPA screening criteria, and is therefore not required to conduct further VMT analysis, as the proposed project is anticipated to have less than significant impacts related to VMT.

Safety Analysis.

Sight Distance Analysis. A sight distance analysis was conducted along Oak Hill Road at the proposed vehicular access point to the project. The purpose of the sight distance analysis at the project driveway on Oak Hill Road is to ensure driver visibility and safety. In the project vicinity, the speed limit along Oak Hill Road is 25 mph. However, based on a 2015 speed survey from the City's Engineering and Traffic Survey, the 85th percentile speed along Oak Hill Road is 33 mph. As such, the Oak Hill Road sight distance analysis is based on 35 mph (rounded up from 33 mph). According to Table 6C-2 of the California Department of Transportation (Caltrans) California Manual on Uniform Traffic Control Devices (CA MUTCD), 2014 Edition (Revision 6), the stopping sight distance for roadways with a speed limit of 35 mph is 250 ft. As shown in Figure 4 of the TIA, there are no sight distance obstructions at the project driveway, and the sight distances at the project driveway exceed 250 ft (left and right of the driveway), enabling left and right turns at the stop without any visual obstruction. Therefore, the project driveway meets the minimum sight distance requirements specified in the CA MUTCD.

Gap Analysis. On Tuesday, September 20, 2022, Counts Unlimited conducted a gap survey to determine whether a driver has adequate time to safely turn into the project driveway on Oak Hill Road. Counts Unlimited timed the gaps between each vehicle traveling southbound on Oak Hill Road from 7:00 a.m. to 9:00 a.m., and from 4:00 p.m. to 6:00 p.m. The Caltrans 2018 *Highway Design Manual*, 6th Edition, states that 7.5 seconds are required for a driver to complete the necessary maneuver. The data were organized into observed gaps per 5-minute

increments with the number of gaps over 7.5 seconds highlighted and summed. The Oak Hill Road gap survey is provided in Appendix B of the TIA.

Based on the gap survey, there are 129 gaps in the mornings (a.m. peak hour) and 142 gaps in the evenings (p.m. peak hour). Because the proposed project is anticipated to generate very few northbound left-turn vehicles (2 in the a.m. peak hour and 4 in the p.m. peak hour), there are adequate gaps along Oak Hill Drive for drivers to safely make this turn movement into the project site.

Given the high number of gaps and average gap lengths between each vehicle traveling southbound on Oak Hill Road, there are similar gaps between vehicles traveling northbound on Oak Hill Road. As such, there are adequate gaps to allow the 18 a.m. and 12 p.m. peak hour eastbound left turning vehicles to exit the project driveway onto Oak Hill Road.

There are several existing pedestrian, bicycle, and transit facilities in close proximity to the project site that allow and promote alternative modes of transportation. Project residents and guests will be afforded the opportunity to safely walk, bike, and utilize transit to their preferred commercial, residential, employment, and recreational destinations via Oak Hill Road, Mount Diablo Boulevard, and the surrounding facilities.

A planned Class I bikeway/Americans with Disabilities Act-accessible pedestrian and bicycle facility along the EBMUD Aqueduct right-of-way located directly north of the project site would further enhance amenities in the project vicinity for project residents and guests. The proposed bicycle and pedestrian facility would also provide signalization of the Oak Hill Road/SR-24 eastbound off-ramp intersection, installation of curb extensions at pathway crossings, installation of high-visibility crosswalks and advanced stop bars, and widening the sidewalk on the east side of Oak Hill Road from the pathway to Mount Diablo Boulevard.

Based on the existing pedestrian, bicycle, and transit features and amenities in the project vicinity, project residents and guests will have adequate access and circulation for all modes of transportation. In addition, based on the existing sight distances and available gaps along Oak Hill Road, motorists will have the ability to safely turn in and out of the project driveway. As such, the proposed project would not adversely affect the regional and local circulation and access for any mode of transportation. Therefore, transportation improvements are neither required nor recommended for the proposed project.

Based on the results of this analysis, implementation of the Oak Hill Project would not result in any adverse effects to the surrounding roadway system. The project considers all modes of transportation and does not conflict with any plans, ordinances, policies, or programs regarding public transit, bicycle, or pedestrian facilities. Transit would not be affected. The project would provide pedestrian/bicycle connectivity to/from the local circulation network while ensuring the safety of motorists, pedestrians, and bicyclists.

Based on the project site plan and the existing conditions of the surrounding roadway network, adequate access and circulation would be provided for the proposed project. Motorists will be able

to safely turn in and out of the project driveway along Oak Hill Road. Therefore, the proposed project is presumed to have a less than significant transportation impact.

Noise

This noise and vibration impact analysis is based on the Noise and Vibration Memorandum[6] (Attachment D) prepared for the Oak Hill Road Project. The memorandum evaluates the potential impacts associated with the construction and operation of the proposed project. The report is intended to satisfy the City's requirement for a project-specific noise and vibration impact analysis and examines the impacts of the proposed project to the existing noise-sensitive uses adjacent to the project site. To properly account for the impacts associated with the proposed project, existing noise levels were assessed based on noise measurement data gathered in the vicinity of the project site (from Tuesday, July 19, 2022, to Thursday, July 21, 2022) and project-related noise and vibration levels are based on noise and vibration levels generated by typical construction equipment. Traffic volumes from the TIA[7] and additional stationary sources on the project site were also evaluated. Methodology and regulatory background information can be found in Attachment D. Impact conclusions are included here.

The evaluation of noise impacts associated with the proposed project includes:

- A determination of the short-term construction noise and vibration levels at off-site noise-sensitive uses and comparison to the City's General Plan and Municipal Code Ordinance requirements; and

- A determination of the long-term noise levels at off-site noise sensitive uses and comparison of those levels to the City's pertinent noise standards.

Overview of the Existing Noise Environment. The primary existing noise sources in the project area are transportation facilities, including SR-24, Oak Hill Road, and Mount Diablo Boulevard.

To assess the existing noise conditions in the area, long-term noise measurements were conducted at the project site. Two long-term, 24-hour measurements were taken from Tuesday, July 19, 2022, to Thursday, July 21, 2022. The locations of the noise measurements are shown on Figure 3 of the Noise and Vibration Memorandum (see Attachment D) and the results are summarized in Table B. Noise measurement data are provided in Attachment D of this memorandum.

Table B: Existing Noise Level Measurements

Location	Location Description	Date	Daytime Noise Levels[1] (dBA L_{eq})	Nighttime Noise Levels[2] (dBA L_{eq})	Daily Noise Levels (dBA L_{dn})	Average Daily Noise Levels (dBA L_{dn})
LT-1	West of site, on a big tree by the upper parking lot,	7/19/2022	57.5 – 61.6	50.8 – 60.1	63.0	63.0
		7/20/2022	57.9 – 61.1	51.4 – 59.6	63.0	

6 LSA. 2024c. Noise and Vibration Memorandum. September.

7 LSA. 2024b. TIA. September.

Table B: Existing Noise Level Measurements

Location	Location Description	Date	Daytime Noise Levels[1] (dBA L_{eq})	Nighttime Noise Levels[2] (dBA L_{eq})	Daily Noise Levels (dBA L_{dn})	Average Daily Noise Levels (dBA L_{dn})
	next to "The Stuart Company" building (1009).					
LT-2	North of site, on the rail of the upper terrace of building (LMK Interiors). Approximately 160 ft west of Oak Hill Road centerline.	7/19/2022	64.8 – 68.0	57.8 – 66.8	70.0	70.0
		7/20/2022	63.7 – 67.8	58.1 – 66.7	70.0	

Source: Compiled by LSA (July 2022).
[1] Daytime Noise Levels = noise levels during the hours of 7:00 a.m. to 10:00 p.m.
[2] Nighttime Noise Levels = noise levels during the hours of 10:00 p.m. to 7:00 a.m.
dBA = A-weighted decibels
ft = foot/feet
L_{dn} = day-night Level
L_{eq} = equivalent continuous sound level

Aircraft Noise. The project site is approximately 7 miles southwest of Buchanan Field Airport (a public airport). Based on a review of the maps within the *Buchanan Field Airport Policies* of the Contra Costa County Airport Land Use Compatibility Plan,[8] the project site is well outside of the 60 A-weighted decibels (dBA) Community Noise Equivalent Level (CNEL) contours.[9] Additionally, the project site is not in a flight pattern area (i.e., takeoff or landing) for any airport or private airstrip. Because the proposed project and surrounding sensitive uses are all outside of the 60 dBA CNEL contours, no further analysis is necessary.

Sensitive Land Uses in the Project Vicinity. Certain land uses are considered more sensitive to noise than others. Examples of these include residential areas, educational facilities, hospitals, childcare facilities, and senior housing. Land uses adjacent to the project site include:

- **East:** Existing commercial uses opposite Oak Hill Road
- **South:** Existing multifamily residences approximately 45 feet from the project site property line
- **West:** Existing multifamily residences approximately 15 feet from the project site property line

Project Impact Analysis. The proposed project would result in short-term construction noise and vibration impacts and long-term mobile source noise and vibration impacts as described below.

[8] Contra Costa County. 2020. *Contra Costa County Airport Land Use Compatibility Plan*. December.
[9] CNEL is the time-varying noise over a 24-hour period, with a 5 dBA weighting factor applied to the hourly L_{eq} for noises occurring from 7:00 p.m. to 10:00 p.m. (defined as relaxation hours), and a 10 dBA weighting factor applied to noises occurring from 10:00 p.m. to 7:00 a.m. (defined as sleeping hours).

Short-Term Construction-Related Impact Analysis. Project construction would result in short-term noise and vibration. Maximum construction noise would be short-term, generally intermittent depending on the construction phase, and variable depending on receiver distance from the active construction zone. The duration of various types of construction noise and vibration would vary from 1 day to several weeks, depending on the phase of construction. The level and types of impacts that may occur during construction are described below.

Construction Noise Analysis. Two types of short-term noise would occur during project construction, including (1) equipment delivery and construction worker commutes, and (2) project construction operations.

The first type of short-term construction noise would result from the transport of construction equipment and materials to the project site and construction worker commutes. These transportation activities would incrementally raise noise levels on access roads leading to the site. It is expected that larger trucks used in equipment delivery would generate higher noise impacts than trucks associated with worker commutes. The single-event noise from equipment trucks passing at a distance of 50 ft from a sensitive noise receptor would reach a maximum instantaneous noise level (L_{max}) of 84 dBA. However, the pieces of heavy equipment for construction activities would be moved on-site just one time and would remain on-site for the duration of each construction phase. This one-time trip, when heavy construction equipment is moved on and off site, would not add to the daily traffic noise in the project vicinity. The total number of daily vehicle trips would be minimal compared to existing traffic volumes on the affected streets, and the long-term noise level changes associated with these trips would not be perceptible. Therefore, equipment transport noise and construction-related worker commute impacts would be short-term and would not result in a significant off-site noise impact.

The second type of short-term noise impact is related to noise generated during demolition, site preparation, building construction, architectural coating, and paving on the project site. Construction is undertaken in discrete steps, each of which has its own mix of equipment and, consequently, its own noise characteristics. These various sequential phases would change the character of the noise generated on the project site. Therefore, the noise levels vary as construction progresses. Despite the variety in the type and size of construction equipment, similarities in the dominant noise sources and patterns of operation allow construction-related noise ranges to be categorized by work phase. Table C lists the maximum noise levels recommended for noise impact assessments for typical construction equipment based on a distance of 50 ft between the construction equipment and a noise receptor. Typical operating cycles for these types of construction equipment may involve 1–2 minutes of full power operation followed by 3–4 minutes at lower power settings.

Table C: Typical Construction Equipment Noise Levels

Equipment Description	Acoustical Usage Factor (%)	Maximum Noise Level (L_{max}) at 50 ft
Auger	20	85
Concrete Mixer	40	85
Concrete Pump	40	85
Crane	16	83
Dozer	40	80
Forklift	20	75
Front [End] Loader	40	79
Generator	100	78
Grader	8	85
Scraper	40	88
Welder	40	74

Source: Roadway Construction Noise Model (Federal Highway Administration 2006).
ft = foot/feet
L_{max} = maximum instantaneous sound level

In addition to the reference maximum noise level, the usage factor provided in Table C is used to calculate the hourly noise level impact for each piece of equipment based on the following equation:

$$L_{eq}(equip) = E.L. + 10\log(U.F.) - 20\log\left(\frac{D}{50}\right)$$

where: $L_{eq}(equip)$ = L_{eq} at a receiver resulting from the operation of a single piece of equipment over a specified time period

E.L. = Noise emission level of the particular piece of equipment at a reference distance of 50 ft

U.F. = Usage factor that accounts for the fraction of time that the equipment is in use over the specified period of time

D = Distance from the receiver to the piece of equipment

Each piece of construction equipment operates as an individual point source. Using the following equation, a composite noise level can be calculated when multiple sources of noise operate simultaneously.

$$Leq\ (composite) = 10 * \log_{10}\left(\sum_{1}^{n} 10^{\frac{Ln}{10}}\right)$$

Using the equations from the methodology above and the reference information in Table D and the construction equipment list provided, the composite noise level of each construction phase was calculated. The project construction composite noise levels at a distance of 50 feet would range from 74 dBA equivalent continuous noise level (L_{eq}) to 88 dBA L_{eq}, with the highest noise levels occurring during the site preparation phase.

Table D: Potential Construction Noise Impacts by Phase

Phase	Equipment (Quantity)	Composite Noise Level at 50 feet (dBA L_{eq})
Demolition	Concrete Saw (1), Tractors (3), Dozers (2)	87
Site Preparation	Tractors (4), Dozers (3)	88
Grading	Grader (1), Excavator (1), Tractors (3), Dozer (1)	87
Building Construction	Crane (1), Forklifts (3), Generator (1), Welder (1), Tractors (3)	86
Paving	Pavers (2), Paving Equipment (2), Rollers (2)	86
Architectural Coating	Air Compressor (1)	74

Source: Compiled by LSA (2024).
dBA L_{eq} = average A-weighted hourly noise level

Once composite noise levels are calculated, reference noise levels can then be adjusted for distance using the following equation:

$$Leq\ (at\ distance\ X) = Leq\ (at\ 50\ feet) - 20 * \log_{10}\left(\frac{X}{50}\right)$$

In general, this equation shows that doubling the distance would decrease noise levels by 6 dBA, while halving the distance would increase noise levels by 6 dBA.

Table E shows the nearest sensitive uses that surround the project site, the distances of their respective property lines from the center of construction activities, and noise levels expected during demolition activities. These noise level projections do not consider intervening topography or barriers. Construction equipment calculations are provided in Attachment D.

Table E: Potential Construction Noise Impacts at Nearby Receptors

Receptor (Location)	Distance (feet)	Noise Level (dBA L_{eq})
Multifamily residence (West)	130	79
Multifamily residence (South)	155	78

Source: Compiled by LSA (2024).
dBA L_{eq} = average A-weighted hourly noise level

While construction noise will vary, it is expected that composite noise levels during construction at the nearest off-site residential uses to the west would reach an average noise level of 79 dBA L_{eq} during daytime hours. Average noise levels during other construction phases would range from 67 dBA L_{eq} to 78 dBA L_{eq} at the nearest receptor. These predicted noise levels would only occur when all construction equipment is operating simultaneously and, therefore, are assumed to be rather conservative in nature. While construction-related short-term noise levels have the potential to be higher than existing ambient noise levels in the project area under existing conditions, the noise impacts would no longer occur once project construction is completed.

Construction-related noise levels at the nearest receptor locations would remain below the 80 dBA L_{eq} construction noise level criteria and, therefore, would be considered less than significant.

The City's Noise Ordinance regulates construction activities. The proposed project would comply with the construction hours specified in the City's Noise Ordinance, which states that construction activities are allowed between the hours of 8:00 a.m. and 8:00 p.m. on weekdays and Saturdays and between the hours of 10:00 a.m. and 6:00 p.m. on Sundays and holidays. With compliance with the requirements of the Noise Ordinance the overall noise levels generated would be minimized, and construction noise impacts would be less than significant.

Construction Vibration Building Damage Potential. This construction vibration impact analysis assesses the potential for building damage using vibration levels in peak particle velocity (PPV) (in/sec). Table F shows the PPV and vibration velocity in decibels (VdB) values at 25 ft from the construction vibration source. As shown in Table F, bulldozers and other heavy-tracked construction equipment (expected to be used for this project) generate approximately 0.089 PPV in/sec of ground-borne vibration when measured at 25 ft, based on the Federal Transit Administration (FTA) *Transit Noise and Vibration Impact Assessment Manual*. The distance to the nearest buildings for vibration impact analysis is measured between the nearest off-site buildings and the project construction boundary (assuming the construction equipment would be used at or near the project setback line).

Table F: Vibration Source Amplitudes for Construction Equipment

Equipment	Reference Level at 25 ft	
	PPV (in/sec)	L_V (VdB)[1]
Vibratory Roller	0.210	94
Large Bulldozer/Caisson Drilling	0.089	87
Loaded Trucks	0.076	86
Jackhammer	0.035	79
Small Bulldozer	0.003	58

Source: Caltrans Transportation and Construction Vibration Guidance Manual (2013).

1. RMS VdB re 1 µin/sec.

µin/sec = microinch(es) per second
in/sec = inch(es) per second
Caltrans = California Department of Transportation
LV = velocity in decibels
PPV = peak particle velocity
RMS = root-mean-square
VdB = vibration velocity in decibels

The formulae for vibration transmission are provided below, and Table G provides a summary of off-site construction vibration levels.

$$L_vdB\ (D) = L_vdB\ (25\ feet) - 30\ Log\ (D/25)$$

$$PPV_{equip} = PPV_{ref} \times (25/D)^{1.5}$$

The FTA guidelines indicate that for non-engineered timber and masonry building, the construction vibration damage criterion is 0.2 in/sec in PPV.

As shown in Table G, the nearest off-site structures, which are associated with the existing residences to the west, are approximately 15 ft from the project construction boundaries. Using site-specific equipment assumed for this project, similar to a large bulldozer, would generate ground-borne vibration levels of up to 0.191 in/sec PPV at the closest structure to the project site. This vibration level would not exceed the 0.2 in/sec PPV threshold considered safe for non-engineered timber and masonry buildings. Therefore, impacts associated with construction vibration damage potential would be less than significant.

Table G: Potential Construction Vibration Damage Impacts at Nearest Receptor

Receptor (Location)	Reference Vibration Level (PPV) at 25 ft[1]	Distance (ft)[2]	Vibration Level (PPV)
Residential (West)	0.089	15	0.191
Residential (South)		20	0.124

Source: Compiled by LSA (2022).
[1] The reference vibration level is associated with a large bulldozer, which is expected to be representative of the heavy equipment used during construction.
[2] The reference distance is associated with the peak condition, identified by the distance from the perimeter of construction activities to surrounding structures.
ft = foot/feet
PPV = peak particle velocity

Construction Vibration Human Annoyance Potential. The closest area at which humans may be potentially impacted by construction vibration annoyance is the existing residences to the west of the project site, approximately 130 ft from the center of the project site. This receptor site would experience vibration levels approaching 66 VdB. This vibration level would not result in community annoyance because vibration levels would not exceed the FTA Manual community annoyance threshold of 72 VdB, which is generally considered not noticeable. All other buildings are farther away and would experience lower impacts. Therefore, this level of ground-borne vibration would be less than significant for human annoyance.

Long-Term Off-Site Traffic Noise Impact Analysis. Compared to the trip generation of the existing on-site uses that would be demolished as part of the project, the proposed project is anticipated to generate a net increase of 24 daily trips based on the TIA.[10] According to the City of Lafayette Traffic Count Map[11] the existing (2009) ADT on Oak Hill Road is 10,700. While the current traffic volume on Oak Hill Road is likely higher, using the 2009 volumes would be considered conservative, because the project-related increase would be proportionately greater when compared to a lower ADT. The following equation was used to determine the potential impacts of the project:

[10] LSA. 2024b. *Transportation Impact Analysis for the Oak Hill Road Project.* September.
[11] City of Lafayette. 2009. Traffic Counts: Oak Hill Road. Website: https://www.lovelafayette.org/home/showdocument?id=1081. Accessed September 13, 2024.

$$\text{Change in CNEL} = 10\ log_{10}\ [V_{(e+p)}/V_{(existing)}]$$

where: $V_{existing}$ = existing daily volumes
V_{e+p} = existing daily volumes plus project
Change in CNEL = increase in noise level due to the project

The results of the calculations show that an increase of approximately 0.01 dBA CNEL is expected along Oak Hill Road. A noise level increase of less than 1 dBA would not be perceptible to the human ear; therefore, the traffic noise increase in the vicinity of the project site resulting from the proposed project would be less than significant.

Long-Term Operational Noise Impact Analysis.

Stationary Operational Noise Impacts to Off-Site Receivers. Potential long-term noise impacts would be associated with stationary sources proposed on the project site. Stationary noise sources from the proposed project would include noise generated from on-site heating, ventilation, and air conditioning (HVAC) noise.

Heating, Ventilation, and Air Conditioning Equipment. Adjacent off-site land uses would be potentially exposed to stationary-source noise impacts from the proposed on-site HVAC equipment. The HVAC equipment could operate 24 hours per day. Based on previous measurements LSA has conducted, the HVAC equipment would generate noise levels of 66.6 dBA L_{eq} at 5 ft per HVAC unit. The closest off-site sensitive use during operation of the proposed project would be the existing residences west of the project site. Per the building plans for the proposed project, the proposed building would have parapet walls to hide the mechanical equipment, which would reduce noise levels by a minimum of 5 dBA, resulting in a reference level of 72.4 dBA L_{eq} at 5 ft from each bank of HVAC units. After distance attenuation, noise generated from the closest banks of HVAC equipment would be up to 48.4 dBA L_{eq} at the nearest sensitive use, as shown in Table H. This noise level would not exceed the City's noise standards of 55 and 50 dBA L_{eq} for daytime and nighttime hours, respectively. While this noise level does exceed the City's noise standards of 45 dBA L_{eq} for air conditioning units, the projected noise level would be below the quietest existing ambient noise levels of 50.8 dBA L_{eq} as shown in Table H at the nearest off-site sensitive building façade. Therefore, the impact would be less than significant.

Table H: Summary of HVAC Noise Levels

Off-Site Land Use (Direction)	Distance from HVAC Units (ft)	Reference Noise Level for 1 Unit at 5 ft (dBA L_{eq})	Reference Noise for a Bank of 12 Units at 5 ft (dBA L_{eq})[1]	Distance Attenuation (dBA)	Noise Level (dBA L_{eq})
Residential building (West)	75	66.6	72.4	24	48.4

Source: Compiled by LSA (2024).
[1] Includes a minimum reduction of 5 dBA provided by rooftop parapet walls.
dBA = A-weighted decibel(s)
ft = foot/feet

HVAC = heating, ventilation, and air conditioning
L_{eq} = equivalent continuous sound level

Long-Term Ground-Borne Noise and Vibration from Vehicular Traffic. Because the rubber tires and suspension systems of buses and other on-road vehicles provide vibration isolation and reduce noise, it is unusual for on-road vehicles to cause ground-borne noise or vibration. When on-road vehicles cause such effects as the rattling of windows, the source is almost always airborne noise. Most problems with on-road vehicle-related noise and vibration can be directly related to a pothole, bump, expansion joint, or other discontinuity in the road surface. Smoothing the bump or filling the pothole will usually solve the problem. The proposed project would have roads with smooth pavement and would not result in significant ground-borne noise or vibration impacts from vehicular traffic.

Air Quality and Greenhouse Gas

This air quality and greenhouse gas impact analysis is based on the Air Quality and Greenhouse Gas Memorandum[12] (Attachment E) prepared for the proposed project. The memorandum evaluates the potential air quality and greenhouse gas (GHG) emissions impacts associated with the construction and operation of the proposed project. The report is intended to satisfy the City's requirement for a project-specific air quality and GHG impact analysis and examines construction and operational emissions, construction health risk assessment results, and GHG emissions, which were assessed based on whether they would exceed air quality standards set by the Bay Area Air Quality Management District (BAAQMD). Traffic volumes used in the analysis can be found in the TIA.[13]

The California Emissions Estimator Model (CalEEMod) Version 2022.1 computer program was used to calculate emissions from on-site construction equipment and emissions from worker and vehicle trips to the site. Construction of the proposed project would use Tier 2 construction equipment equipped with Level 3 diesel particulate filters (DPF), which was included in CalEEMod. Other detailed construction information is currently unavailable; therefore, this analysis uses CalEEMod default assumptions.

A construction health risk assessment (HRA), which evaluates construction-period health risk to off-site receptors, was performed for the proposed project using the California Air Resources Board (CARB) exposure methodology with the air dispersion modeling performed using the United States Environmental Protection Agency's dispersion model, called AERMOD. The model provides a detailed estimate of exhaust concentrations based on site and source geometry, source emissions strength, distance from the source to the receptor, and meteorological data.

Consistent with BAAQMD's guidance for estimating emissions, the CalEEMod computer program was used to calculate the long-term operational emissions associated with the project.

12 LSA. 2024d. *Air Quality, Greenhouse Gas Emissions Impact Analysis for the Oak Hill Road Project.* September.

13 LSA. 2024b. *Transportation Impact Analysis for the Oak Hill Road Project.* September.

GHG emissions associated with the project would occur over the short-term from construction activities, consisting primarily of emissions from equipment exhaust. There would also be long-term GHG emissions associated with project-related area sources, energy consumption, water conveyance and treatment, and waste generation.

Further methodology and regulatory background information can be found in Attachment E. Impact conclusions are included here.

Project Impacts. The sections below describe the proposed project's consistency with applicable air quality plans, estimated project emissions, and the significance of impacts for both air quality and GHG emissions with respect to BAAQMD thresholds.

Consistency with Applicable Air Quality Plans. The applicable air quality plan is the BAAQMD 2017 Clean Air Plan, which defines control strategies to reduce emissions and ambient concentrations of air pollutants; safeguard public health by reducing exposure to air pollutants that pose the greatest heath risk, with an emphasis on protecting the communities most heavily affected by air pollution; and reduce GHG emissions to protect the climate. Consistency with the Clean Air Plan can be determined if the project (1) supports the goals of the Clean Air Plan, (2) includes applicable control measures from the Clean Air Plan, and (3) would not disrupt or hinder implementation of any control measures from the Clean Air Plan.

Clean Air Plan Goals. The primary goals of the Bay Area Clean Air Plan are to attain air quality standards, reduce population exposure and protect public health in the Bay Area, and reduce GHG emissions and protect the climate.

The BAAQMD has established significance thresholds for project construction and operational impacts at a level at which the cumulative impact of exceeding these thresholds would have an adverse impact on the region's attainment of air quality standards. The health and hazards thresholds were established to help protect public health. As discussed below, construction and operation of the proposed project would not result in the generation of criteria air pollutants that would exceed BAAQMD thresholds of significance. Therefore, the proposed project would not conflict with the Clean Air Plan goals.

Clean Air Plan Control Measures. The control strategies of the Clean Air Plan include measures in the following categories: Stationary Source Measures, Transportation Source Measures, Energy Measures, Building Measures, Agriculture Measures, Natural and Working Lands Measures, Waste Management Measures, Water Measures, and Super-GHG Pollutants Measures. The proposed project's compliance with each of these control measures is discussed below.

Stationary Source Control Measures. The Stationary Source Control Measures, which are designed to reduce emissions from stationary sources such as metal melting facilities, cement kilns, refineries, and glass furnaces, are incorporated into rules adopted by the BAAQMD and then enforced by the BAAQMD Permit and Inspection programs. Since the proposed project would not include any of these stationary sources, the Stationary

Source Control Measures of the Clean Air Plan are not applicable to the proposed project.

Transportation Control Measures. The BAAQMD identifies Transportation Control Measures as part of the Clean Air Plan to decrease emissions of criteria pollutants, toxic air contaminants (TAC), and GHGs by reducing demand for motor vehicle travel, promoting efficient vehicles and transit service, decarbonizing transportation fuels, and electrifying motor vehicles and equipment. The proposed project would result in the redevelopment of the site with residential and commercial uses on an infill site that would locate residents, employees, and visitors near existing residential, commercial, and retail uses, as well as mass transit options, reducing the demand for travel by single-occupancy vehicles. Therefore, the proposed project would not conflict with the identified Transportation and Mobile Source Control Measures of the Clean Air Plan.

Energy Control Measures. The Clean Air Plan also includes Energy Control Measures, which are designed to reduce emissions of criteria air pollutants, TACs, and GHGs by decreasing the amount of electricity consumed in the Bay Area and decreasing the carbon intensity of the electricity used by switching to less GHG intensive fuel sources for electricity generation. These measures apply to electrical utility providers and local government agencies (and not individual projects). However, the proposed project would be required to comply with all federal, State, and local requirements for energy efficiency, including the latest California Energy Code and California Green Building Standards Code (CALGreen) standards. Therefore, the proposed project would not conflict with the energy control measures of the Clean Air Plan.

Building Control Measures. The BAAQMD has authority to regulate emissions from certain sources in buildings such as boilers and water heaters but has limited authority to regulate buildings themselves. Therefore, the strategies in the control measures for this sector focus on working with local governments that do have authority over local building codes, to facilitate adoption of best GHG control practices and policies. The proposed project would be required to comply with the latest California Energy Code and CALGreen standards, regarding energy conservation and green building standards. Therefore, the proposed project would not conflict with any of the Building Control Measures.

Agriculture Control Measures. The Agriculture Control Measures are designed to primarily reduce emissions of methane. Since the project does not include any agricultural activities, the Agriculture Control Measures of the Clean Air Plan are not applicable to the proposed project.

Natural and Working Lands Control Measures. The Natural and Working Lands Control Measures focus on increasing carbon sequestration on rangelands and wetlands and encouraging local governments to adopt ordinances that promote urban tree plantings. Since the proposed project does not include the disturbance of any rangelands or wetlands, the Natural and Working Lands Control Measures of the Clean Air Plan are not applicable to the proposed project.

Waste Management Control Measures. The Waste Management Control Measures focus on reducing or capturing methane emissions from landfills and composting facilities, diverting organic materials away from landfills, and increasing waste diversion rates through efforts to reduce, reuse, and recycle. The proposed project would comply with local requirements for waste management (e.g., recycling and composting services). Therefore, the proposed project would be consistent with the Waste Management Control Measures of the Clean Air Plan.

Water Control Measures. The Water Control Measures focus on reducing emissions of criteria pollutants, TACs, and GHGs by encouraging water conservation, limiting GHG emissions from publicly owned treatment works, and promoting the use of biogas recovery systems. Since these measures apply to publicly owned treatment works and local government agencies (and not individual projects), the Water Control Measures are not applicable to the proposed project.

Super GHG Control Measures. The Super-GHG Control Measures are designed to facilitate the adoption of best GHG control practices and policies through the BAAQMD and local government agencies. Since these measures do not apply to individual projects, the Super-GHG Control Measures are not applicable to the proposed project.

Clean Air Plan Implementation. As discussed above, the proposed project would generally implement the applicable measures outlined in the Clean Air Plan, including Transportation Control Measures. Therefore, the project would not disrupt or hinder implementation of a control measure from the Clean Air Plan.

Criteria Pollutant Analysis. The BAAQMD is currently designated as a nonattainment area for State and national ozone (O_3) standards and national particulate matter ambient air quality standards. The BAAQMD's nonattainment status is attributed to the region's development history. Past, present, and future development projects contribute to the region's adverse air quality impacts on a cumulative basis. By its very nature, air pollution is largely a cumulative impact. No single project is sufficient in size to, by itself, result in nonattainment of ambient air quality standards. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's contribution to the cumulative impact is considerable, then the project's impact on air quality would be considered significant.

In developing thresholds of significance for air pollutants, the BAAQMD considered the emission levels for which a project's individual emissions would be cumulatively considerable. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions. Therefore, additional analysis to assess cumulative impacts is unnecessary. The following analysis assesses the potential project-level construction- and operation-related air quality impacts.

Short-Term Construction Emissions. During construction, short-term degradation of air quality may occur due to the release of particulate emissions generated by demolition, grading, paving, building, and other activities. Emissions from construction equipment are

also anticipated and would include carbon monoxide (CO), nitrogen oxides (NO_x), reactive organic gases (ROG), directly emitted particulate matter (particulate matter 2.5 microns or less in diameter [$PM_{2.5}$] and particulate matter 10 microns or less in diameter [PM_{10}]), and TACs such as diesel exhaust particulate matter.

Project construction activities would include demolition, site preparation, grading, building, paving, and architectural coating (painting). Construction-related effects on air quality from the proposed project would be greatest during the site preparation phase due to the disturbance of soils. If not properly controlled, these activities would temporarily generate particulate emissions. Sources of fugitive dust would include disturbed soils at the construction site. Unless properly controlled, vehicles leaving the site would deposit dirt and mud on local streets, which could be an additional source of airborne dust after it dries. PM_{10} emissions would vary from day to day, depending on the nature and magnitude of construction activity and local weather conditions. PM_{10} emissions would depend on soil moisture, silt content of soil, wind speed, and the amount of operating equipment. Larger dust particles would settle near the source, while fine particles would be dispersed over greater distances from the construction site.

Water or other soil stabilizers can be used to control dust, resulting in emission reductions of 50 percent or more. In their May 2017 CEQA Guidelines (Table 8-2), the BAAQMD established standard measures for reducing fugitive dust emissions (PM_{10}). With the implementation of these Basic Construction Mitigation Measures, fugitive dust emissions from construction activities would not result in adverse air quality impacts.

In addition to dust-related PM_{10} emissions, heavy trucks and construction equipment powered by gasoline and diesel engines would generate CO, sulfur dioxide (SO_2), NO_x, ROG, and some soot particulate ($PM_{2.5}$ and PM_{10}) in exhaust emissions. If construction activities were to increase traffic congestion in the area, CO and other emissions from traffic would increase slightly while those vehicles idle in traffic. These emissions would be temporary in nature and limited to the immediate area surrounding the construction site.

As discussed above, CalEEMod was used to calculate emissions from on-site construction equipment and emissions from worker and vehicle trips to the site. Construction-related emissions are presented in Table I, below.

Table I: Project Construction Emissions in Pounds Per Day

Project Construction	ROG	NO_X	Exhaust PM_{10}	Fugitive Dust PM_{10}	Exhaust $PM_{2.5}$	Fugitive Dust $PM_{2.5}$
2025	0.2	4.9	<0.1	0.5	<0.1	0.2
2026	0.6	14.4	0.1	0.8	0.1	0.2
2027	4.7	10.6	0.1	0.4	0.1	0.1
Maximum Average Daily Emissions	**4.7**	**14.4**	**0.1**	**0.8**	**0.1**	**0.2**
BAAQMD Thresholds	54.0	54.0	82.0	BMP	54.0	BMP
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Compiled by LSA (September 2024).

Table I: Project Construction Emissions in Pounds Per Day

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2025	0.2	4.9	<0.1	0.5	<0.1	0.2
2026	0.6	14.4	0.1	0.8	0.1	0.2
2027	4.7	10.6	0.1	0.4	0.1	0.1

BAAQMD = Bay Area Air Quality Management District
BMP = best management practices
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter 2.5 microns or less in diameter
PM_{10} = particulate matter 10 microns or less in diameter
ROG = reactive organic gases

As shown in Table I, construction emissions associated with the project would not exceed the BAAQMD's thresholds for ROG, NO_x, CO, exhaust PM_{10}, and exhaust $PM_{2.5}$ emissions. In addition, the BAAQMD requires the implementation of Basic Construction Mitigation Measures to reduce construction fugitive dust impacts to a less-than-significant level. With implementation of the BAAQMD's Basic Construction Mitigation Measures, construction emissions associated with the project would not exceed the significance criteria for ROG, NO_x, PM_{10}, or $PM_{2.5}$ emissions. Therefore, construction of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable federal or State Ambient Air Quality Standards (AAQS).

Long-Term Operational Emissions. Long-term air pollutant emission impacts are those associated with mobile sources (e.g., vehicle trips), energy sources (e.g., natural gas), and area sources (e.g., architectural coatings and the use of landscape maintenance equipment) related to the proposed project.

PM_{10} emissions result from running exhaust, tire and brake wear, and the entrainment of dust into the atmosphere from vehicles traveling on paved roadways. Entrainment of PM_{10} occurs when vehicle tires pulverize small rocks and pavement, and the vehicle wakes generate airborne dust. The contribution of tire and brake wear is small compared to the other PM emission processes. Gasoline-powered engines have small rates of particulate matter emissions compared with diesel-powered vehicles. As discussed above, the proposed project would generate a net increase of 24 daily trips, which was included in this analysis.

Energy source emissions result from activities in buildings for which natural gas is used. The quantity of emissions is the product of usage intensity (i.e., the amount of natural gas). The proposed project would be all-electric and would not include natural gas. Therefore, the proposed project would not generate energy-source emissions.

Area source emissions associated with the project would include emissions from the use of landscaping equipment.

Emission estimates for operation of the project were calculated using CalEEMod. The primary emissions associated with the project are regional in nature, meaning that air pollutants are rapidly dispersed on release or, in the case of vehicle emissions associated with the project, emissions are released in other areas of the Air Basin. The daily and annual emissions associated with project operational trip generation, energy, and area sources are identified in Table J for ROG, NO_x, PM_{10}, and $PM_{2.5}$.

Table J: Project Operational Emissions

	ROG	NO_x	PM_{10}	$PM_{2.5}$
Pounds per Day				
Mobile Source Emissions	0.1	0.1	0.2	0.1
Area Source Emissions	3.2	<0.1	<0.1	<0.1
Energy Source Emissions	0.0	0.0	0.0	0.0
Total Emissions	**3.3**	**0.1**	**0.2**	**0.1**
BAAQMD Thresholds	54.0	54.0	82.0	54.0
Exceeds Threshold?	**No**	**No**	**No**	**No**
Tons per Year				
Mobile Source Emissions	<0.1	<0.1	<0.1	<0.1
Area Source Emissions	0.6	<0.1	<0.1	<0.1
Energy Source Emissions	0.0	0.0	0.0	0.0
Total Emissions	**0.6**	**<0.1**	**<0.1**	**<0.1**
BAAQMD Thresholds	10.0	10.0	15.0	10.0
Exceeds Threshold?	**No**	**No**	**No**	**No**

Source: Compiled by LSA (September 2024).
BAAQMD = Bay Area Air Quality Management District
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter 2.5 microns or less in diameter
PM_{10} = particulate matter 10 microns or less in diameter
ROG = reactive organic gases

The results shown in Table J indicate the project would not exceed the significance criteria for daily or annual ROG, NO_x, PM_{10}, and $PM_{2.5}$ emissions; therefore, operation of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable federal or State AAQS.

Localized CO Impacts. Emissions and ambient concentrations of CO have decreased dramatically in the Bay Area with the introduction of the catalytic converter in 1975. No exceedances of the State or federal CO standards have been recorded at Bay Area monitoring stations since 1991. The BAAQMD's 2022 CEQA Guidelines include recommended methodologies for quantifying concentrations of localized CO levels for proposed transportation projects. A screening level analysis using guidance from the BAAQMD CEQA Guidelines was performed to determine the impacts of the project. The screening methodology provides a conservative indication of whether the implementation of a proposed project would result in significant CO emissions. According to the BAAQMD's CEQA Guidelines, a proposed project would result in a less than significant impact to localized CO concentrations if the following screening criteria are met:

- The project is consistent with an applicable congestion management program established by the county congestion management agency for designated roads or highways, and the regional transportation plan and local congestion management agency plans.

- Project traffic would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour.

- The project would not increase traffic volumes at affected intersections to more than 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, bridge underpass, natural or urban street canyon, or below-grade roadway).

Implementation of the proposed project would not conflict with the CCTA's Congestion Management Program. The proposed project would generate approximately 17 AM peak hour trips and would result in a decrease of 12 PM peak hour trips; therefore, the project's contribution to peak-hour traffic volumes at intersections in the vicinity of the project site would be well below 44,000 vehicles per hour. Therefore, the proposed project would not result in localized CO concentrations that exceed State or federal standards.

Health Risk on Nearby Sensitive Receptors. Sensitive receptors are defined as residential uses, schools, daycare centers, nursing homes, and medical centers. Individuals particularly vulnerable to diesel particulate matter are children, whose lung tissue is still developing, and the elderly, who may have serious health problems that can be aggravated by exposure to diesel particulate matter. Exposure from diesel exhaust associated with construction activity contributes to both cancer and chronic non-cancer health risks. The proposed project is surrounded by existing industrial, commercial, and residential uses. The closest receptors to the project site are multifamily residential uses immediately west of the project site boundary.

A construction HRA, which evaluates construction-period health risk to off-site receptors, was performed for the proposed project, and the analysis is presented below. Table K, below, identifies the results of the analysis assuming the use of Tier 2 construction equipment equipped with Level 3 DPF, as proposed by the project, at the maximally exposed individual (MEI), which is the nearest sensitive receptor. Model snapshots of the sources and results are shown in Attachment E.

Table K: Inhalation Health Risks from Project Construction to Off-Site Receptors

	Carcinogenic Inhalation Health Risk in 1 Million	Chronic Inhalation Hazard Index	Acute Inhalation Hazard Index	Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
Maximally Exposed Individual	7.1	0.007	0.000	0.035
Threshold	**10.0**	**1.0**	**1.0**	**0.3**
Exceeds Threshold?	**No**	**No**	**No**	**No**

Source: Compiled by LSA (September 2024).
$\mu g/m^3$ = micrograms per cubic meter
$PM_{2.5}$ = particulate matter less than 2.5 microns in size

As shown in Table K the risk associated with project construction at the MEI would be 7.1 in 1 million, which would not exceed the BAAQMD cancer risk threshold of 10 in 1 million. The total chronic hazard index would be 0.007, which is below the threshold of 1.0. In addition, the total acute hazard index would be nominal (0.0), which would also not exceed the threshold of 1.0. The results of the analysis indicate that the total $PM_{2.5}$ concentration would be 0.035 micrograms per cubic meter ($\mu g/m^3$), which would also not exceed the BAAQMD significance threshold of 0.3 $\mu g/m^3$. Once the project is constructed, the project would not be a source of substantial pollutant emissions. Therefore, sensitive receptors are not expected to be exposed to substantial pollutant concentrations during project construction and operation.

Objectionable Odors. During construction, the various diesel-powered vehicles and equipment in use on-site would create localized odors. These odors would be temporary and are not likely to be noticeable for extended periods of time beyond the project site. Additionally, the proposed uses that would be developed within the project site are not expected to produce any offensive odors that would result in frequent odor complaints.

Greenhouse Gas Emissions.

Generate Greenhouse Gas Emissions. As discussed above, a project would have a less than significant impact related to GHG emissions if it would include the project design elements related to natural gas, energy, VMT, and electric vehicles or if it would be consistent with a local GHG reduction strategy that meets the criteria under *State CEQA Guidelines* Section 15183.5(b). The City's Environmental Action Plan (EAP) does not meet these requirements. Therefore, this section evaluates the proposed project's consistency with the BAAQMD's project design elements.

Natural Gas Usage. According to the BAAQMD, a less than significant GHG impact would occur if the project does not include natural gas appliances or natural gas plumbing. As discussed in the Project Description, the proposed project would be all electric. Since the proposed project would not include natural gas, the proposed project would be consistent with this design element.

Energy Usage. The project must not result in any wasteful, inefficient, or unnecessary energy usage as determined by the analysis required under Section 21100(b)(3) and Section 15126.2(b) of the *State CEQA Guidelines*. Energy use consumed by the proposed project would be associated with electricity consumption associated with the project. Energy consumption was estimated for the project using default energy intensities by land use type in the CalEEMod output, which is included in Attachment A of the Air Quality and Greenhouse Gas Memorandum (Attachment E of this memorandum).

Based on CalEEMod, the estimated potential increased electricity demand associated with the proposed project is 643,952 kilowatt-hours (kWh) per year. Total electricity consumption in Contra Costa County in 2022 was 8,337.8 gigawatt-hours or 8,337,835,566 kWh. Therefore, operation of the proposed project would increase the annual electricity consumption in Contra Costa County by less than 0.01 percent.

In addition, the all-electric building design would result in decreasing emissions as California's grid becomes cleaner, and once the grid consists of 100 percent renewable generation sources, the building would have zero operational emissions associated with electricity usage. In addition to the all-electric design, the proposed project would include rooftop solar and would be constructed to current California Energy Code and CALGreen standards, which would require energy-saving building features and help to reduce energy consumption. As such, based on this analysis, as required under Section 21100(b)(3) and Section 15126.2(b) of the *State CEQA Guidelines*, the proposed project would not result in the wasteful, inefficient, or unnecessary consumption of fuel or energy and would incorporate renewable energy and energy efficiency measures into the building design, equipment use, and transportation. As such, the proposed project would be consistent with this design element.

Vehicle Miles Traveled. To meet the BAAQMD's VMT threshold, the project must achieve a reduction in project-generated VMT below the regional average consistent with the current version of the California Climate Change Scoping Plan or meet a locally adopted SB 743 VMT target, reflecting the recommendations provided in the Governor's Office of Planning and Research's 2018 *Technical Advisory on Evaluating Transportation Impacts in CEQA*. Based on the project's TIA (Attachment C), the existing uses generate approximately 494 average daily trips and the proposed project would generate approximately 518 average daily trips. As such, the proposed project would generate 518 average daily trips. This would be a net increase of 24 daily trips. Due to the minimal increase in average daily trips, and because the project would meet the CCTA's VMT screening criteria, it is assumed that the proposed project would result in a less than significant impact related to VMT. As such, the proposed project would be consistent with this design element.

Electric Vehicle Requirements. This criterion requires that the project achieve compliance with off-street electric vehicle requirements in the most recently adopted version of the CALGreen Tier 2 measures. The current CALGreen Tier 2 requires that a minimum of 10 percent of the parking spaces provide electric vehicle charging. As identified in the Project Description, the proposed project would provide EV charging as required by applicable codes, including the CALGreen Tier 2 requirements. As such, the proposed project would be consistent with this criterion.

As discussed above, the proposed project would be consistent with the BAAQMD's project design elements related to natural gas, energy, VMT, and electric vehicles. Therefore, the proposed project would be consistent with the BAAQMD's GHG emission thresholds. As such, the proposed project would not result in the generation of GHG emissions that would have a significant impact on the environment.

Consistency with Greenhouse Gas Reduction Plans. As discussed above, the City adopted its EAP[14] in November 2006 to guide and help the City achieve its sustainable goals by developing criteria for evaluating long-term impacts of the City's decisions. The EAP is a policy document that includes goals and associated recommended programs, enabling the City to maintain control while implementing State mandates to lower GHG emissions and monitor other environmental factors. The plan includes goals and policies in the following categories: resource conservation, community health, transportation, and open space, parks, and landscape. As discussed above, the following goals and policies are applicable to the proposed project.

- **Solid Waste Goal 1.** Increase community waste reduction, recycling, and composting to 75 percent of yearly solid waste generation by 2025.

- **Energy Goal 1.** Community Energy Use: Reduce community energy use from 2015 by 5 percent by 2020, 10 percent by 2025, 15 percent by 2030, and transition to 75 percent renewable energy by 2025.

- **Transportation Goal 1.** Reduce community-wide GHG emissions caused by transportation to the maximum extent practicable as directed by the city council.

The proposed project would be consistent with the EAP Solid Waste Goal 1, as the proposed project would be consistent with current local and State standards related to increased diversion and reduction of waste. In addition, the proposed project would be consistent with EAP Energy Goal 1, as the proposed project would include rooftop solar, would comply with the latest California Energy Code and CALGreen standards, and would replace older buildings that were built with less-efficient standard codes, improving the overall efficiency of the project site. In addition, the proposed project would be consistent with EAP Transportation Goal 1, as the proposed project would result in a net decrease in vehicle trips. As such, the proposed project would be consistent with applicable EAP goals.

In addition, the proposed project was analyzed for consistency with the goals of the 2022 Scoping Plan, Executive Order B-30-15, SB 32, and AB 197. The following discussion evaluates the proposed project according to the goals of the 2022 Scoping Plan.

The Global Warming Solutions Act of 2006 (AB 32) required CARB to prepare a Scoping Plan to achieve reductions in greenhouse gas (GHG) emissions in California. The Scoping Plan was

[14] City of Lafayette. 2006. Environmental Action Plan, last revised 2017. Website: https://www.lovelafayette.org/home/showpublisheddocument/4138/636469583046330000. Accessed September 13, 2024.

originally approved in 2008,[15] and a first update was approved in 2013.[16] Following Executive Order B-30-15, which set an immediate target of reducing GHG emissions to 40 percent below 1990 levels by 2030, SB 32, which affirmed the importance of addressing climate change by codifying into statute the GHG emissions reductions target contained in Executive Order B-30-15, and AB 197, which provided additional direction to the CARB related to the adoption of strategies to reduce GHG emissions, CARB released a second update to the Scoping Plan, the 2017 Scoping Plan,[17] which reflects the 2030 target.

The third update to the Scoping Plan, the 2022 Scoping Plan,[18] assesses progress toward the statutory 2030 target while laying out a path to achieving carbon neutrality no later than 2045. The 2022 Scoping Plan focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others, and is designed to meet the State's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities.

The 2022 Scoping Plan focuses on building clean energy production and distribution infrastructure for a carbon-neutral future, including transitioning existing energy production and transmission infrastructure to produce zero-carbon electricity and hydrogen, and utilizing biogas resulting from wildfire management or landfill and dairy operations, among other substitutes. The 2022 Scoping Plan states that in almost all sectors, electrification will play an important role. The 2022 Scoping Plan evaluates clean energy and technology options and the transition away from fossil fuels, including adding four times the solar and wind capacity by 2045 and about 1,700 times the amount of current hydrogen supply. As discussed in the 2022 Scoping Plan, EO N-79-20 requires that all new passenger vehicles sold in California will be zero-emission by 2035, and all other fleets will have transitioned to zero-emission as fully possible by 2045, which will reduce the percentage of fossil fuel combustion vehicles.

As identified above, the 2022 Scoping Plan contains GHG reduction measures that work towards reducing GHG emissions, consistent with the targets set by Executive Order B-30-15 and codified by SB 32 and AB 197. The measures applicable to the proposed project include

15 CARB. 2008. Climate Change Scoping Plan. Website: https://ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/document/adopted_scoping_plan.pdf. Accessed September 13, 2024.

16 CARB. 2013. First Update to the Climate Change Scoping Plan. Website: https://ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/2013_update/first_update_climate_change_scoping_plan.pdf. Accessed September 13, 2024.

17 CARB. 2017. California's 2017 Climate Change Scoping Plan. Website: https://ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/scoping_plan_2017.pdf. Accessed September 13, 2024.

18 CARB. 2022. 2022 Scoping Plan for Achieving Carbon Neutrality. Website: https://ww2.arb.ca.gov/sites/default/files/2023-04/2022-sp.pdf. Accessed September 13, 2024.

energy efficiency measures, water conservation and efficiency measures, and transportation and motor vehicle measures, as discussed below.

Energy-efficient measures are intended to maximize energy efficiency building and appliance standards, pursue additional efficiency efforts, including new technologies and new policy and implementation mechanisms, and pursue comparable investment in energy efficiency from all retail providers of electricity in California. In addition, these measures are designed to expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings. The proposed project would include rooftop solar and would be required to comply with the latest California Energy Code and CALgreen standards regarding energy conservation and green building standards. In addition, as discussed above, the proposed project would replace older buildings that were built with less efficient standard codes, improving the overall efficiency of the project site. Further, the proposed project would be all-electric and would not include natural gas. The elimination of natural gas in new development would help projects implement their "fair share" of achieving long-term 2045 carbon neutrality consistent State goals. As such, if a project does not utilize natural gas, a lead agency can conclude that it would be consistent with achieving the 2045 neutrality goal and will not have a cumulative considerable impact on climate change.[19] Therefore, the proposed project would comply with applicable energy measures.

Water conservation and efficiency measures are intended to continue efficiency programs and use cleaner energy sources to move and treat water. Increasing the efficiency of water transport and reducing water use would reduce GHG emissions. As noted above, the project would be required to comply with the latest CALGreen standards, which include a variety of different measures, including reduction of wastewater and water use. In addition, the proposed project would be required to comply with the California Model Water Efficient Landscape Ordinance. Therefore, the proposed project would not conflict with any of the water conservation and efficiency measures.

The goal of transportation and motor vehicle measures is to develop regional GHG emissions reduction targets for passenger vehicles. Specific regional emission targets for transportation emissions would not directly apply to the proposed project. The second phase of Pavley standards will reduce GHG emissions from new cars by 34 percent from 2016 levels by 2025, resulting in a 3 percent decrease in average vehicle emissions for all vehicles by 2020. Vehicles manufactured after 2017 and traveling to the project site would comply with the Pavley II (LEV III) Advanced Clean Cars Program. Therefore, the proposed project would not conflict with the identified transportation and motor vehicle measures.

[19] Bay Area Air Quality Management District (BAAQMD). 2023. *Air Quality Guidelines Appendix A: Thresholds of Significance Justification.* Website: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/appendix-a-thresholds-of-significance-justification_final-pdf (accessed September 2024).

Therefore, the proposed project would comply with existing State regulations adopted to achieve the overall GHG emissions reduction goals identified in the 2022 Scoping Plan, Executive Order B-30-15, SB 32, and AB 197, and would be consistent with applicable plans and programs designed to reduce GHG emissions. Therefore, the proposed project would not conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs.

Conclusion. Based on the analysis presented above, construction of the proposed project would not result in the generation of criteria air pollutants that would exceed BAAQMD thresholds of significance. Operational emissions associated with the proposed project would also not exceed BAAQMD established significance thresholds. The proposed project is not expected to produce significant emissions that would affect nearby sensitive receptors. The proposed project would also not result in objectionable odors affecting a substantial number of people. In addition, the project would not result in the emission of substantial GHG emissions. Additionally, the project would not conflict with the State's GHG emissions reductions objectives embodied in the 2022 Scoping Plan. Therefore, the proposed project's incremental contribution to cumulative GHG emissions would not be cumulatively considerable.

Water Quality

This water quality impact analysis is based on the Water Quality Memorandum[20] (Attachment F) prepared for the proposed project. The memorandum evaluates the potential water quality impacts associated with the construction and operation of the proposed project. The report is intended to satisfy the City's requirement for a project-specific water quality impact analysis and examines the impacts of the proposed project to the existing water quality at, adjacent to, and downstream of the project site. Methodology and regulatory background information can be found in Attachment F. Impact conclusions are included here.

Impact Analysis.

Construction. Construction activities would involve disturbance, grading, and excavation of soil, which could result in temporary erosion and movement of sediments into the storm drain system, particularly during precipitation events. However, the proposed project would comply with all applicable National Pollutant Discharge Elimination System (NPDES) requirements to reduce impacts to water quality. Projects that disturb greater than 1 acre of soil are subject to the requirements of the Construction General Permit. The proposed project would disturb more than 1 acre of soil (1.21 acres); therefore, is required to comply with the requirements of the SWRCB's Construction General Permit.

The Construction General Permit requires the development and implementation of a Stormwater Pollution Prevention Plan (SWPPP) that includes specific Best Management Practices (BMPs) designed to prevent sediment and other pollutants from contacting stormwater and from moving off-site into receiving waters. Potential BMPs fall into several categories, including erosion control, sediment control, waste management and good

[20] LSA. 2024e. Water Quality Memorandum. September.

housekeeping, and are intended to protect surface water quality by preventing the off-site migration of eroded soil and construction-related pollutants from the construction area. Examples of construction BMPs include: physical barriers to prevent erosion and sedimentation, construction of sedimentation basins, limitations on work periods during storm events, use of swales, protection of stockpiled materials, and a variety of other measures that would substantially reduce or prevent erosion or sedimentation from occurring during construction. Routine inspection of all BMPs is required under the provisions of the Construction General Permit. In addition, the SWPPP is required to contain a visual monitoring program and a chemical monitoring program for non-visible pollutants.

The SWPPP would include, at a minimum:

- Description of construction materials, practices, and equipment storage maintenance;
- List of pollutants likely to contact stormwater and site-specific erosion and sedimentation control practices;
- List of provisions to eliminate or reduce discharge of materials in stormwater;
- BMPs for fuel and equipment storage;
- Non-storm water management measures, such as installing specific discharge controls during activities such as paving operations and vehicle and equipment washing and fueling; and
- Commitment that equipment, materials, and workers would be available for rapid response to spills and/or emergencies. All corrective maintenance or BMPs would be performed as soon as possible, depending upon worker safety.

Post-construction requirements necessitate that construction sites be restored to pre-project hydrological conditions to ensure that the physical and biological integrity of aquatic ecosystems are sustained in their existing condition.

In addition to stormwater discharges, the Construction General Permit also covers other non-storm water discharges including irrigation of vegetative erosion control measures, water to control dust, uncontaminated groundwater from dewatering, and other discharges not subject to a separate general NPDES permit adopted by the RWQCB. The discharge of non-storm water is authorized under the following conditions:

- The discharge does not cause or contribute to a violation of any water quality standard;
- The discharge does not violate any other provision of the General Permit;
- The discharge is not prohibited by the applicable Basin Plan;

- The discharger has included and implemented specific BMPs required by the General Permit to prevent or reduce the contact of the non-storm water discharge with construction materials or equipment;

- The discharge does not contain toxic constituents in toxic amounts or (other) significant quantities of pollutants;

- The discharge is monitored and meets the applicable numeric action levels; and

- The discharger reports the sampling information in the SWPPP Annual Report.

Furthermore, Chapter 3-7 of the City of Lafayette Municipal Code requires projects that move more than 50 cubic yards of soil to obtain a grading permit to ensure that grading does not significantly increase erosion or flooding on- or off-site or cause impacts to water quality that cannot be mitigated, and Chapter 5-4 of the City of Lafayette Municipal Code requires all construction projects to incorporate site specific BMPs to address erosion and minimize the discharge and transport of pollutants during construction activities. Therefore, impacts to surface water quality during construction would be less than significant.

As described above, there are no defined groundwater basins in the project area. According to the Applicant the depth to groundwater at the project site is anticipated to be greater than 50 feet below ground surface (bgs). Excavation during construction would be to a maximum depth of 27 ft bgs. Due to the depth of groundwater and the proposed depth of excavation, it is not anticipated that groundwater would be encountered during construction. Therefore, groundwater dewatering would not be required during construction and construction-related impacts to groundwater quality would be less than significant.

Operation. Pollutants of concern during operation of the proposed project may include suspended solids/sediments, nutrients, pesticides, heavy metals, oil and grease, toxic organic compounds, and trash and debris. The existing impervious surface area in the project site is 35,990 square feet (0.83 acre). The proposed project would include the replacement of most existing impervious surface area and development of new impervious surface area, resulting in a total of 36,630 square feet (0.84 acre) of impervious surface area post-development (a net increase of 640 square feet, or 0.01 acre). An increase in impervious surface area would increase the volume of runoff during a storm, which would potentially increase the amount of pollutants discharged into downstream receiving waters.

The proposed project is subject to the requirements of the San Francisco Bay Region Municipal Regional Permit (MRP). In compliance with the San Francisco Bay Region MRP and the City Municipal Code, a stormwater control plan is currently being prepared for the proposed project in accordance with the Contra Costa Clean Water Program Stormwater C.3 Guidebook. The proposed project would be required to complete and implement a stormwater management and control plan to ensure that the stormwater capacity of the existing storm drain system would not be exceeded. Furthermore, the stormwater control plan must include low impact development (LID) design measures to address potential water quality impacts by preserving

and recreating natural landscape features, minimizing impervious surfaces, and using stormwater as a resource, rather than a waste product, to the greatest extent practicable.

In the existing condition, stormwater sheet flows across the project site, generally from north to south, and into an existing storm drain on Oak Hill Road. In the post project condition, LID design measures would include dividing the proposed project into ten drainage management areas (DMA) with appropriately sized self-treating landscape areas, flow through planters, and bioretention basins. These measures would be designed to meet the requirements of the San Francisco Bay Region MRP, City Municipal Code, and Stormwater C.3 Guidebook. Once collected and treated, stormwater runoff would be directed into the municipal storm drain system through a connection in Oak Hill Road. The City's municipal storm drain outfalls to Lafayette Creek, which drains to Las Trampas Creek, then Walnut Creek and eventually Suisun Bay. To address potential water contaminants, the project is required to comply with applicable federal, State, and local water quality regulations. Due to the small increase in impervious surface area (640 sf) the proposed project would not exceed the capacity of the existing storm drain system.

Because the proposed project would remove and/or replace less than an acre of impervious surface area it is not subject to hydromodification requirements of the San Francisco Bay MRP.

Compliance with the requirements of the San Francisco Bay Region MRP, City Municipal Code, and the Contra Costa Clean Water Program Stormwater C.3 Guidebook, including incorporation of operational BMPs to target pollutants of concern, would ensure that impacts related to waste discharge requirements, water quality standards, and degradation of water quality during project operation would be less than significant.

Project operation would not require groundwater extraction. Water usage for the proposed project would primarily be associated with residential uses, irrigation for landscaping, and fire suppression systems. Lafayette is not dependent on groundwater as its main water supply. Therefore, the proposed project would not generate additional demand for water that would affect groundwater supplies. In addition, Lafayette is not in a defined groundwater basin as determined by the Department of Water Resources. Therefore, the small increase in impervious surface area would not impact groundwater recharge.

As noted above, Lafayette is not in a defined groundwater basin as identified by the Department of Water Resources. Because there is not an adopted Groundwater Sustainability Plan applicable to the project site, the project would not conflict with or obstruct the implementation of a sustainable groundwater management plan. Even though there is not a defined groundwater basin underlying the project area, perched groundwater may still be present. As discussed above, the proposed project would result in a net increase of impervious surface area of 640 square feet. An increase in impervious surface area decreases infiltration, which can decrease the amount of water that is able to recharge the perched groundwater. However, the small increase in impervious surface area would not substantially decrease any infiltration that currently may occur on the project site. Therefore, the project would not significantly decrease groundwater supplies or interfere with groundwater recharge.

According to Federal Emergency Management Agency Flood Insurance Rate Map No. 06013C0269F (June 16, 2009), the project site is not within a 100-year floodplain. Specifically, the project site is within Zone X, an area of minimal flood hazard (outside the 500-year floodplain). According to the Department of Conservation Tsunami Hazard Area Maps, the project site is not within a Hazard Area. Therefore, there is no risk of tsunami or seiche on the project site. No project-related impacts associated with flood flows or release of pollutants from inundation would occur.

Overall, compliance with the requirements of the Construction General Permit, San Francisco Bay MRP and Contra Costa Clean Water Program, and the Lafayette Municipal Code chapters 5-4 and 3-7 as described above would ensure that the proposed project would not result in significant impacts associated with hydrology or water quality.

5. The site can be adequately served by all required utilities and public services.

The project site is served by all utilities and public services in the existing condition. Specific utilities and public service providers serving the project site include the following:

- **Water:** EBMUD
- **Wastewater:** Central San
- **Fire:** Contra Costa County Fire Protection District
- **Police:** City of Lafayette Police Department
- **Schools:** Lafayette School District (Kindergarten – 8th grade) and Acalanes Union High School District (9th-12th grades)
- **Trash:** Republic Services
- **Landfill:** Keller Canyon Landfill
- **Electricity:** Pacific Gas & Electric Co. (PG&E) and Marin Clean Energy (MCE)
- **Natural Gas:** PG&E

EBMUD owns and maintains the water distribution mains that provide water service in Lafayette. The proposed project would be subject to EBMUD's System Capacity Charge, which pays for the project's share of the capital facilities, including those that serve the entire water system, such as the aqueducts and raw water facilities, regional facilities such as treatment plants and distribution facilities, and future water supply upgrades needed to meet long-term increases in water demand created by new customers. Central San collects and treats wastewater in Lafayette. The proposed project would comply with the City's General Plan, including Policy LU20.6, requiring adequate sewage collection, treatment, and disposal facilities. Capacity fees are collected by Central San from

new construction that results in an added wastewater burden. Residential parcels are charged a flat per-unit fee, and the amounts due are collected before plans are approved.

The proposed project would use high-efficiency plumbing fixtures, such as high-efficiency toilets, urinals, showerheads, and faucet fixtures. For outdoor water use, the project would be Model Water Efficient Landscape Ordinance compliant, including high-efficiency irrigation controllers that either automatically account for rainfall, or are attached to a rainfall sensor. Implementation of water conservation and efficiency measures would minimize the potable water demand generated and lessen the need for capacity or other improvements to the water system and would reduce the wastewater generated.

Water usage would also include fire suppression systems. The project would involve the construction of new on-site water and wastewater distribution systems to serve the new building, which would connect to existing water and wastewater lines within the Downtown Core. The on-site systems would be constructed in compliance with the City's building and plumbing codes in the City Municipal Code. Construction of the water and wastewater infrastructure from the project site to existing water and wastewater lines within the City would be a routine part of the construction process and would not have a material environmental impact.

The Contra Costa County Fire Protection District provides fire protection and emergency medical response services for more than 600,000 people within Contra Costa County, including in Lafayette. Project compliance with requirements set forth in the California Fire Code and the City's Municipal Code would provide fire protection for people and structures, as well as emergency medical services on-site. Compliance with applicable codes would decrease the demand for fire services and ensure that there is adequate emergency access on-site. Therefore, the proposed project would not trigger the need for new or physically altered fire facilities.

The City of Lafayette Police Department provides law enforcement services to the City through a contract with the Contra Costa County Office of the Sheriff. Based on the City's 2022 population of 25,310,[21] the existing officer-to-resident ratio of approximately 0.75 officer per 1,000 residents.[22] The proposed project would include 90 units: 19 1-bedroom units, 30 2-bedroom units, 19 2-bedroom units with an office, and 22 3-bedroom units, resulting in 183 bedrooms in total. Per the 2022 American Community Survey, only 0.3 percent of rooms in owner-occupied housing units in Lafayette have more than one occupant per room, and only 26 percent of rooms in owner-occupied housing units in Lafayette have more than 0.5 occupant per room. For renter-occupied housing units in Lafayette, only 8 percent of rooms have more than one occupant per room, and 45 percent have more than 0.5 occupant per room.[23] Conservatively estimating that 10 percent of rooms in the

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21 U.S. Census Bureau. 2022. ACS Demographic and Housing Estimates. *American Community Survey, ACS 5-Year Estimates Data Profiles, Table DP05*. Website: https://data.census.gov/table/ACSDP5Y2022.DP05?g=160XX00US0639122. Accessed September 12, 2024.

22 City of Lafayette Department of Police Services and Public Safety. 2024. Police Services Webpage. Website: https://lovelafayette.org/city-hall/city-departments/police. Accessed September 19, 2024.

23 U.S. Census Bureau. 2022. Tenure by Occupants per Room. *American Community Survey, ACS 5-Year Estimates Detailed Tables, Table B25014*. Website:

proposed project are occupied by two people, and assuming a stabilized occupancy of 95 percent[24] for the 90 units approximately 2 to 3 years after project opening, the proposed project would result in 190 new residents. This increase of 190 residents would have a negligible impact on the officer-to-resident ratio in Lafayette, which would remain 0.75 officers per 1,000 residents. Therefore, the proposed project would not trigger the need for new or physically altered police facilities.

Pursuant to California Education Code Section 17620(a)(1), the governing board of any school district is authorized to levy a fee, charge, dedication, or other requirement against any construction within the boundaries of the district for the purpose of funding the construction or reconstruction of school facilities. The proposed project would be required to pay such fees to Lafayette School District and Acalanes Union High School District to reduce any impacts related to new development on school services.

Central Contra Costa Solid Waste Authority (RecycleSmart) contracts with Republic Services to provide trash, recycling, and organics service in Lafayette. Solid waste generated by the proposed project would be transported to the Keller Canyon Landfill at 901 Bailey Road in Pittsburg. Keller Canyon Landfill receives a maximum of 3,500 tons per day of solid waste for disposal (including construction/demolition and municipal waste), and is estimated to reach permitted disposal capacity by the year 2050. As of December 31, 2020, the Keller Canyon Landfill had 49,441,787 cubic yards of remaining capacity.[25] Disposal capacity at Keller Canyon Landfill is not constrained at this time, and the proposed project would not be expected to result in or contribute to a significant impact related to waste disposal.

The project site is in the service territory of PG&E and MCE. Development of the proposed project would be required to comply with the energy conservation measures contained in Title 24, which would reduce the amount of energy needed for project operation. The project would not use or install any natural gas service. In the existing condition, the project site is served by both utilities, the availability of electricity is not constrained at this time, and any infrastructure needed to be installed to serve the project (e.g., on-site transformers) would be constructed by the project applicant in consultation with PG&E and/or MCE.

EXCEPTIONS TO CATEGORICAL EXEMPTIONS

The following provides a consistency determination with Section 15300.2 of the *State CEQA Guidelines*, which provides exceptions to the above-noted categorical exemptions, and a brief assessment of the *State CEQA Guidelines* Appendix G Initial Study Checklist resource topics that are

https://data.census.gov/table/ACSDT5Y2022.B25014?t=Occupants Per Room&g=160XX00US0639122. Accessed September 12, 2024.

24 U.S. Census Bureau. 2022. Occupancy Status. *American Community Survey, ACS 5-Year Estimates Detailed Tables, Table B25002*. Website: https://data.census.gov/table/ACSDT5Y2022.B25002?q=B25002&g=160XX00US0639122. Accessed September 12, 2024.

25 County of Contra Costa. 2021. Rodeo Renewed Project Draft Environmental Impact Report. October 2021. Website: https://www.contracosta.ca.gov/DocumentCenter/View/72880/Rodeo-Renewed-Project-DEIR-October-2021-PDF (accessed September 6, 2024).

applicable to the project (under "Exceptions to Categorical Exemptions" Item C). The *State CEQA Guidelines* list the following exceptions to the Categorical Exemptions in Article 19 (see Section 15300.2). In the discussion below, each subsection (in italics) is followed by an explanation of why these exceptions do not apply to the proposed project.

(a) Location. Classes 3, 4, 5, 6, and 11 are qualified by consideration of where the project is to be located – a project that is ordinarily insignificant in its impact on the environment may in a particularly sensitive environment be significant. Therefore, these classes are considered to apply in all instances, except where the project may impact on an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies.

The project is consistent with the Class 32 Categorical Exemption (Section 15332 of the *State CEQA Guidelines*) and therefore is not subject to the Location Exception (Section 15300.2(a)).

(b) Cumulative Impact. All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant.

There are no multi-family residential projects either approved or under construction in immediate proximity ("of the same type in the same place") to the proposed project. However, according to the City's website,[26] there are several similar projects within approximately 0.25 mile of the project. These projects are:

- 100 Lafayette Circle (approved, not under construction): 10,605 sq. ft. mixed use development with ground floor retail and restaurant spaces with offices above. (Zoning designation: SRB)

- 950 Hough Ave (under construction with completion in late 2025.): New 4-story condominium project with 20 units, including 3 below-market-rate units. (Zoning designation: RB)

- 210 Lafayette Circle (completed): 3-story (34-ft. high), 25,450 sq. ft. mixed use building with 12 dwelling units, including 2 below-market-rate units, and 700 sq. ft. of ground floor commercial live/work space. (Zoning designation: SRB)

- Madison Park (approved, not under construction): Redevelopment of the site with 4-story mixed-use building containing 71 units, including 9 below-market-rate units (6 very low income, 3 low income), construction of an underground parking garage, and a public plaza. (Zoning designation: C-1)

No changes are proposed to the Downtown Specific Plan or City General Plan land use designation or zoning for any of these projects, as they would each include development consistent with the land use designations in which they are located; all are located in either Special Retail Business

[26] City of Lafayette. 2024. Major Development Projects Map. Website: https://lafayette.icitywork.com/. Accessed September 19, 2024.

District (SRB) or General Commercial District 1 (C-1). Therefore, in combination with the mixed-use developments listed above, the proposed project would not generate any increase in population that otherwise would not have been planned for in Lafayette.

Cumulative air quality impacts are based on projections in the regional Air Quality Management Plan. Lafayette is within the jurisdiction of the BAAQMD, which regulates air quality in the Bay Area. The applicable air quality plan is the BAAQMD 2017 Clean Air Plan, which defines control strategies to reduce emissions and ambient concentrations of air pollutants; safeguard public health by reducing exposure to air pollutants that pose the greatest heath risk, with an emphasis on protecting the communities most heavily affected by air pollution; and reduce GHG emissions to protect the climate. Consistency with the Clean Air Plan can be determined if the project (1) supports the goals of the Clean Air Plan, (2) includes applicable control measures from the Clean Air Plan, and (3) would not disrupt or hinder implementation of any control measures from the Clean Air Plan.

Because the project, in combination with the mixed-use developments listed above, is consistent with the General Plan land use and zoning designations for the site, the project is consistent with growth projections of the General Plan and would not conflict with or obstruct implementation of the BAAQMD 2017 Clean Air Plan.

Air quality conditions in the Bay Area have improved significantly since the BAAQMD was created in 1955. Ambient concentrations of air pollutants and the number of days during which the region exceeds air quality standards have fallen dramatically. Neither State nor national AAQS of the following chemicals have been violated in recent decades: nitrogen dioxide (NO_2), sulfur dioxide (SO_2), sulfates, lead (Pb), hydrogen sulfide, and vinyl chloride. Those exceedances of air quality standards that do occur primarily happen during meteorological conditions conducive to high pollution levels, such as cold, windless nights, or hot, sunny summer afternoons.

Because of the conservative nature of the significance thresholds and the air basin-wide context of individual development project emissions, there is no direct correlation between a single project and localized air quality-related health effects. One individual project that generates emissions exceeding a threshold does not necessarily result in adverse health effects for residents in the project vicinity. This condition is especially true when the criteria pollutants exceeding thresholds are those with regional effects, such as O_3 precursors like NO_x and ROG. The BAAQMD is under State non-attainment status for O_3 and particulate matter standards. The BAAQMD is classified as non-attainment for the federal O_3 8-hour standard and non-attainment for the federal $PM_{2.5}$ 24-hour standard. As such, the primary pollutants of concern in the project area are O_3, CO, and $PM_{2.5}$.

As discussed under Categorical Exemption Qualification 4: Air Quality, of this memorandum, if a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions.

As detailed in Table I short-term project construction emissions would not exceed BAAQMD thresholds for any criteria pollutants. Further, as shown in Table J although long-term project emissions of ROG, NO_X, PM_{10}, and $PM_{2.5}$ would be generated through operation of the proposed

project, these emissions would be minimal and would not exceed the established BAAQMD daily emission thresholds for any criteria pollutants. As such, in combination with the mixed-use developments listed above, the proposed project would not result in a cumulatively considerable increase in criteria pollutants for which the region is nonattainment.

As discussed under Categorical Exemption Qualification 4: Traffic, the proposed project is anticipated to generate a net increase of 24 daily trips. The project is therefore not anticipated to result in any deficiencies in level of service at area intersections. Due to the minimal increase in trips generated and the less-than-significant VMT impacts expected to result from the proposed project , the project's contribution to the surrounding transportation network would be negligible, even in combination with the mixed-use developments listed above.

Additionally, the minimal increase in trips would not generate an increase in traffic noise. Therefore, project-related cumulative traffic noise impacts on off-site sensitive receptors, even in combination with the mixed-use developments listed above, would be less than significant.

Finally, as detailed throughout Section 5, above, sufficient utilities and public facilities are available to serve the project in addition to existing entitlements and capacity.

In combination with the mixed-use developments listed above, the project would not have a cumulatively considerable impact on the environment and therefore is not subject to the Cumulative Impact Exception (Section 15300.2(b)).

(c) *Significant Effect. A categorical exception shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.*

For a project to have a significant impact to the environment due to unusual circumstances, substantial evidence must show the project would have a significant effect on the environment, or the project is unusual because it has some feature, such as its size or location, that distinguishes it from other projects that would be similarly exempt, and there is a reasonable possibility of a significant effect due to that unusual circumstance.

The proposed project would be consistent with the City's General Plan and Downtown Area Specific Plan land use designations and the City's zoning ordinance for the project site and surrounding area. The project would therefore be consistent with the type and intensity of development anticipated by the City in this area.

As detailed throughout this memorandum, the project is subject to applicable local, State, and/or federal regulations and would not result in significant impacts to the environment. Accordingly, the project would not have a significant effect on the environment due to unusual circumstances and therefore is not subject to the Significant Effect Exception (Section 15300.2(e)).

(d) *Scenic Highways. A categorical exemption shall not be used for a project which may result in damage to scenic resources, including but not limited to, trees, historic buildings, rock*

outcroppings, or similar resources, within a highway officially designated as a state scenic highway. This does not apply to improvements which are required as mitigation by an adopted negative declaration or certified EIR.

The California State Scenic Highway System Map includes SR-24 from the Caldecott Tunnel to Interstate 680 in Walnut Creek. SR-24 is approximately 200 feet to the north of the project site. However, the project would not result in any changes or damage to trees, historic buildings, rock outcroppings, or similar resources within SR-24. In the project vicinity, SR-24 is grade separated with local roads passing under freeway lanes. The project would be visually consistent with the Downtown Specific Plan and therefore would be consistent with the City's Downtown Core. No existing scenic rock outcroppings are within the project limits or any structures that would be eligible for listing as historic resources. The project would not result in any damage to scenic resources.

(e) Hazardous Waste Sites. A categorical exemption shall not be used for a project located on a site which is included on any list compiled pursuant to Section 65962.5 of the Government Code.

Hazardous materials sites compiled pursuant to Government Code Section 65962.5 are listed on the "Cortese List" (named after the Legislator who authored the legislation that enacted it), which is maintained by the California Department of Toxic Substances Control. The project site is not on any list of hazardous material sites compiled pursuant to Government Code Section 65962.5[27] and therefore is not subject to the Hazardous Waste Sites Exception (Section 15300.2(e)).

Additionally, project plans would include standard specifications defining emergency procedures for responding to hazardous materials releases for materials that would be brought onto the site as part of project implementation activities, or for any materials present at the site. The emergency procedures for hazardous materials releases would include the necessary protective equipment, spill containment procedures, and training of workers to respond to accidental spills/releases. All use, storage, transport and disposal of hazardous materials (including any hazardous wastes) during construction activities would be performed in accordance with existing local, State, and federal hazardous materials regulations.

(f) Historical Resources. A categorical exemption shall not be used for a project which may cause a substantial adverse change in the significance of a historical resource.

An aerial survey and archival research regarding the three buildings in the project site determined that 1001 Oak Hill Road was built circa 1961, 1007 Oak Hill Road was built circa 1950, and 1009 Oak Hill Road was built circa 1981.

To be considered a historical resource pursuant to *State CEQA Guidelines* Section 15064.5, the property must be associated with events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California or the United States; be

[27] California Environmental Protection Agency. 2020. Cortese List Data Resources. Website: https://calepa.ca.gov/SiteCleanup/CorteseList/ (accessed September 6, 2024).

associated with the lives of persons important to local, California or national history; embody the distinctive characteristics of a type, period, region, or method of construction or represents the work of a master or possesses high artistic values; or have yielded, or have the potential to yield, information important to the prehistory or history of the local area, California, or the nation. In addition, the City has officially designated five buildings, structures, or sites within the downtown area as historic landmarks; none of these is in or adjacent to the project site.

The buildings on the project site have been extensively altered and do not meet any of the specified criteria for significance in order to be considered a historical resource pursuant to *State CEQA Guidelines* Section 15064.5 (Appendix D). Therefore, the project is not subject to the Historical Resources Exception (Section 15300.2(e)).

CONCLUSION

In summary, the proposed project would be exempt from detailed CEQA review pursuant to Section 15332 of the *State CEQA Guidelines* and would not meet any of the exceptions listed in Section 15300.2 of the *State CEQA Guidelines* that would make the Categorical Exemption inapplicable.

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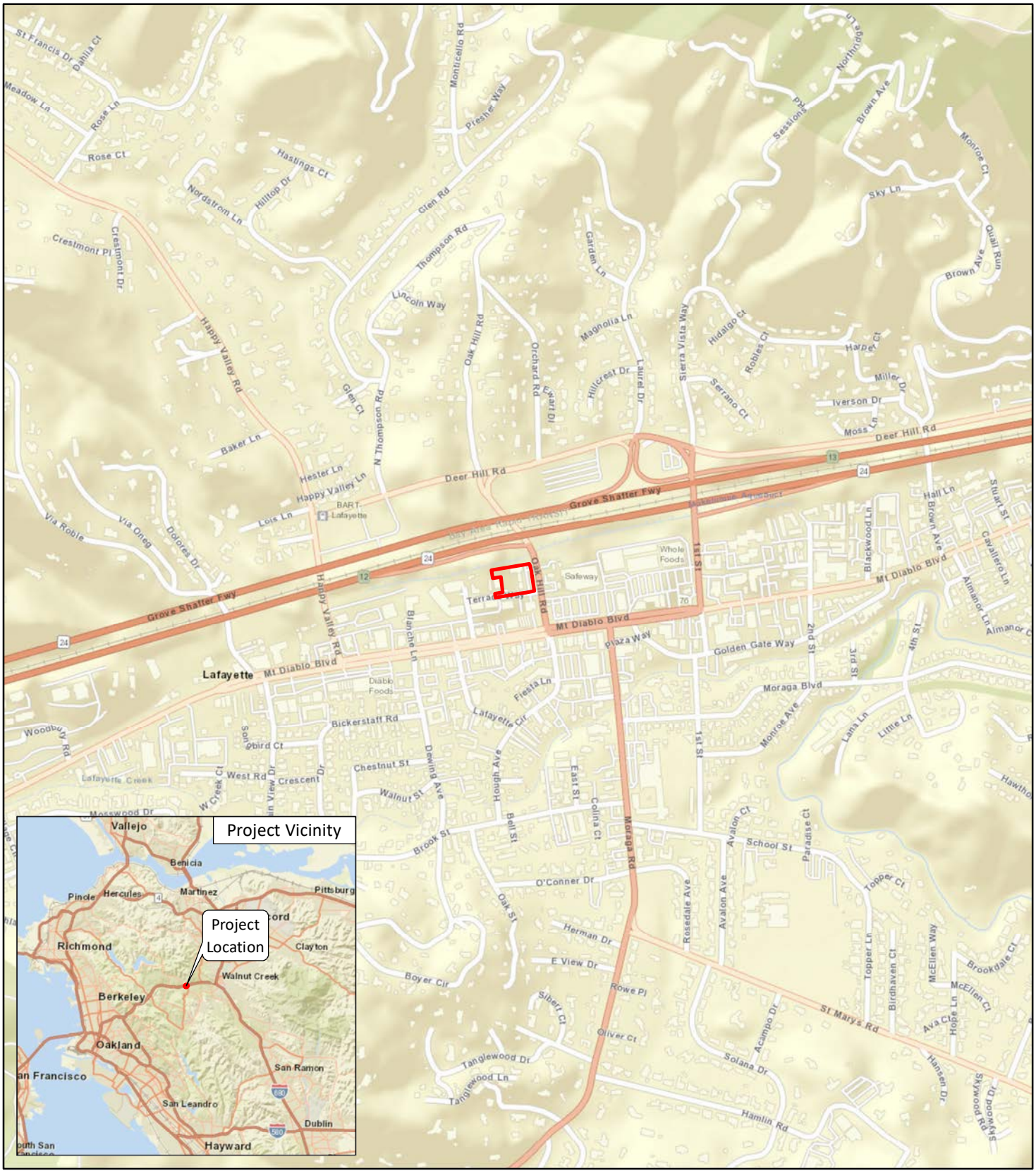
ATTACHMENTS

Attachment A: Figures 1–2
Attachment B: Biological Resources Constraints Evaluation
Attachment C: Transportation Impact Analysis
Attachment D: Noise and Vibration Memorandum
Attachment E: Air Quality and Greenhouse Gas Analysis Memorandum
Attachment F: Water Quality Assessment Memorandum

ATTACHMENT A

FIGURES 1–2



LSA

LEGEND

Project Area

FIGURE 1

N

0 500 1000

FEET

Oak Hill Project

Lafayette, Contra Costa County, California

Regional Location

SOURCE: Esri World Street Map (2022)

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LSA

LEGEND

Project Area

FIGURE 2

N

0 50 100

FEET

SOURCE: Google (2021)

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Oak Hill Project
Lafayette, Contra Costa County, California
Project Vicinity

ATTACHMENT B

BIOLOGICAL RESOURCES CONSTRAINTS EVALUATION

ATTACHMENT C

TRANSPORTATION IMPACT ANALYSIS

ATTACHMENT D

NOISE AND VIBRATION MEMORANDUM

ATTACHMENT E

AIR QUALITY AND GREENHOUSE GAS ANALYSIS MEMORANDUM

ATTACHMENT F

WATER QUALITY ASSESSMENT MEMORANDUM

CARLSBAD
CLOVIS
IRVINE
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

MEMORANDUM

DATE: September 17 , 2024

TO: Jeff Stone, Partner, Diamond Construction

FROM: J.T. Stephens, Principal
Moe Abushanab, Noise Engineer

SUBJECT: Noise and Vibration Impact Memorandum for the Proposed Oak Hill Road Project (LSA Project No. 20241919)

INTRODUCTION

This noise and vibration impact analysis evaluates the potential impacts associated with the construction and operation of the proposed Oak Hill Road Project (project) at 1001 Oak Hill Road in Lafayette, California. This report is intended to satisfy the City of Lafayette's (City) requirement for a project-specific noise and vibration impact analysis and examines the impacts of the proposed project to the existing noise-sensitive uses adjacent to the project site. To properly account for the impacts associated with the proposed project, existing noise levels were assessed based on noise measurement data gathered in the vicinity of the project site (from Tuesday, July 19, 2022, to Thursday, July 21, 2022) and project-related noise and vibration levels generated are based on CalEEMod construction equipment list. Traffic volumes from the *Transportation Impact Analysis for the Oak Hill Road Project* (LSA 2024) and additional stationary sources on the project site were also evaluated.

Location and Description

The project site is at 1001 Oak Hill Road in the Lafayette, Assessor's Parcel Numbers 243-030-033-1, 243-030-038-0, 243-030-020-8, and 243-030-041-4. The 1.21-acre project site is within the downtown core of Lafayette, approximately 300 feet north of Mount Diablo Boulevard on Oak Hill Road and approximately 1,000 feet from Bay Area Rapid Transit's (BART's) Lafayette Station. The site is zoned Special Retail Business (SRB) and currently consists of one three-story commercial/retail building (1009 Oak Hill Road, approximately 4,700 square feet), one single-story commercial/retail building (1003 Oak Hill Road, approximately 2,725 square feet), one two-story commercial/retail building (1007 Oak Hill Road, approximately 1,645 square feet), and asphalt parking lots surrounding the buildings. The project site slopes up to the northwest. There are mature trees throughout the project site between buildings and in streetscape areas. Immediately surrounding the project site to the north is the Oak Hill Road exit from eastbound State Route 24 (SR-24) and the SR-24/Oak Hill Road underpass; to the west are other residential and commercial buildings; to the south and east are commercial uses and the intersection of Oak Hill Road and Mount Diablo Boulevard (refer to Attachment A, Figure 1, Site Location Map).

The proposed project would construct a seven-level, 172,399-gross square foot multifamily building containing 90 residential condominiums and 2,000 square feet of commercial use situated in the downtown retail district of downtown Lafayette. The structure would include a below-grade parking garage with 164 parking spaces with 151 spaces provided by use of a mechanical/stacked parking system. The project would require the demolition and removal of all existing buildings (1003, 1007, and 1009 Oak Hill Road) and removal of eighteen trees.

The project would include rooftop solar panels and would be equipped with bioretention planters along the face of the building on Oak Hill Road. Electrical vehicle charging would be provided as required by applicable codes and some bicycle parking would be provided near the building's lobby and entry locations. The proposed project would utilize electricity for all energy needs and would not include natural gas. The proposed project does not include any type of fireplace devices in the units (refer to Attachment A, Figure 2, Site Plan).

METHODOLOGY

The evaluation of noise impacts associated with the proposed project includes:

- A determination of the short-term construction noise and vibration levels at off-site noise-sensitive uses and comparison to the City's General Plan and Municipal Code Ordinance requirements; and

- A determination of the long-term noise levels at off-site noise sensitive uses and comparison of those levels to the City's pertinent noise standards.

This memorandum is being prepared in support of a Class 32 "Infill" Categorical Exemption (*State CEQA Guidelines* Section 15332), which exempts infill development within urbanized areas if it meets certain criteria. In Lafayette, the Class 32 Exemption is available only for projects that (a) do not trigger Site Plan Review or (b) trigger Site Plan review, but the Initial Study shows that a Negative Declaration may be adopted. The Class 32 Exemption is not available for any project that requires mitigation measures to reduce potential environmental impacts to less than significant.

CHARACTERISTICS OF SOUND

Noise is usually defined as unwanted sound. Noise consists of any sound that may produce physiological or psychological damage and/or interfere with communication, work, rest, recreation, and sleep.

To the human ear, sound has two significant characteristics: pitch and loudness. Pitch is generally an annoyance, while loudness can affect the ability to hear. Pitch is the number of complete vibrations, or cycles per second, of a wave resulting in the tone's range from high to low. Loudness is the strength of a sound that describes a noisy or quiet environment and is measured by the amplitude of the sound wave. Loudness is determined by the intensity of the sound waves combined with the reception characteristics of the human ear. Sound intensity refers to how hard the sound wave strikes an object, which in turn produces the sound's effect. This characteristic of sound can be precisely measured with instruments. The analysis of a project defines the noise environment of the project area in terms of sound intensity and its effect on adjacent sensitive land uses.

Measurement of Sound

Sound intensity is measured through the A-weighted scale to correct for the relative frequency response of the human ear. That is, an A-weighted noise level de-emphasizes low and very high frequencies of sound similar to the human ear's de-emphasis of these frequencies. Unlike linear units (e.g., inches or pounds), decibels are measured on a logarithmic scale representing points on a sharply rising curve.

For example, 10 decibels (dB) is 10 times more intense than 1 dB, 20 dB is 100 times more intense than 1 dB, and 30 dB is 1,000 times more intense than 1 dB. Thirty decibels (30 dB) represent 1,000 times as much acoustic energy as 1 dB. The decibel scale increases as the square of the change, representing the sound pressure energy. A sound as soft as human breathing is about 10 times greater than 0 dB. The decibel system of measuring sound gives a rough connection between the physical intensity of sound and its perceived loudness to the human ear. A 10 dB increase in sound level is perceived by the human ear as only a doubling of the loudness of the sound. Ambient sounds generally range from 30 dB (very quiet) to 100 dB (very loud).

Sound levels are generated from a source, and their decibel level decreases as the distance from that source increases. Sound dissipates exponentially with distance from the noise source. For a single-point source, sound levels decrease approximately 6 dB for each doubling of distance from the source. This drop-off rate is appropriate for noise generated by stationary equipment. If noise is produced by a line source (e.g., highway traffic or railroad operations), the sound decreases 3 dB for each doubling of distance in a hard site environment. Similarly, line sources with intervening absorptive vegetation or line sources that are located at a great distance to the receptor would decrease 4.5 dB for each doubling of distance.

There are many ways to rate noise for various time periods, but an appropriate rating of ambient noise affecting humans also accounts for the annoying effects of sound. The equivalent continuous sound level (L_{eq}) is the total sound energy of time-varying noise over a sample period. However, the predominant rating scales for human communities in the State of California are the L_{eq} and Community Noise Equivalent Level (CNEL) or the day-night average noise level (L_{dn}) based on A-weighted decibels (dBA). CNEL is the time-varying noise over a 24-hour period, with a 5 dBA weighting factor applied to the hourly L_{eq} for noises occurring from 7:00 p.m. to 10:00 p.m. (defined as relaxation hours), and a 10 dBA weighting factor applied to noises occurring from 10:00 p.m. to 7:00 a.m. (defined as sleeping hours). L_{dn} is similar to the CNEL scale but without the adjustment for events occurring during the evening hours. CNEL and L_{dn} are within 1 dBA of each other and are normally interchangeable. The City uses the L_{dn} noise scale for long-term noise impact assessment.

Other noise rating scales of importance when assessing the annoyance factor include the maximum instantaneous noise level (L_{max}), which is the highest exponential time-averaged sound level that occurs during a stated time period. The noise environments discussed in this analysis for short-term noise impacts are specified in terms of maximum levels denoted by L_{max}, which reflects peak operating conditions and addresses the annoying aspects of intermittent noise. It is often used together with another noise scale or noise standards in terms of percentile noise levels in noise ordinances for enforcement purposes. For example, the L_{10} noise level represents the noise level

exceeded 10 percent of the time during a stated period. The L_{50} noise level represents the median noise level (i.e., half the time the noise level exceeds this level, and half the time it is less than this level). The L_{90} noise level represents the noise level exceeded 90 percent of the time and is considered the background noise level during a monitoring period. For a relatively constant noise source, the L_{eq} and L_{50} are approximately the same.

Noise impacts can be described in three categories. The first category is audible impacts that refer to increases in noise levels noticeable to humans. Audible increases in noise levels generally refer to a change of 3.0 dB or greater because this level has been found to be barely perceptible in exterior environments. The second category, potentially audible, refers to a change in the noise level between 1.0 and 3.0 dB. This range of noise levels has been found to be noticeable only in laboratory environments. The last category is changes in noise levels of less than 1.0 dB, which are inaudible to the human ear. Only audible changes in existing ambient or background noise levels are considered potentially significant.

Physiological Effects of Noise

Physical damage to human hearing begins at prolonged exposure to noise levels higher than 85 dBA. Exposure to high noise levels affects the entire system, with prolonged noise exposure in excess of 75 dBA increasing body tensions, thereby affecting blood pressure and functions of the heart and the nervous system. In comparison, extended periods of noise exposure above 90 dBA would result in permanent cell damage. When the noise level reaches 120 dBA, a tickling sensation occurs in the human ear even with short-term exposure. This level of noise is called the threshold of feeling. As the sound reaches 140 dBA, the tickling sensation is replaced by the feeling of pain in the ear. This is called the threshold of pain. A sound level of 160–165 dBA will result in dizziness or loss of equilibrium. The ambient or background noise problem is widespread and generally more concentrated in urban areas than in outlying less developed areas.

Table A lists full definitions of acoustical terms, and Table B shows common sound levels and their sources.

CHARACTERISTICS OF VIBRATION

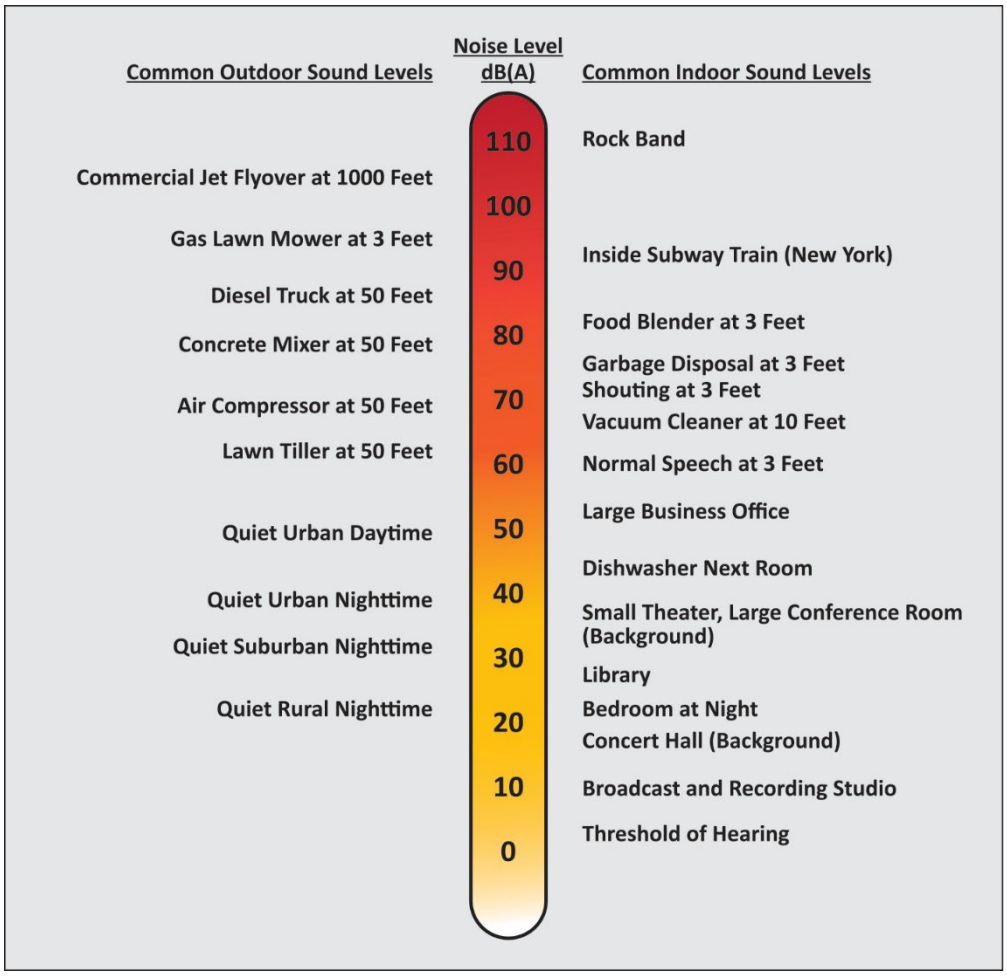
Vibration refers to ground-borne noise and perceptible motion. Ground-borne vibration is almost exclusively a concern inside buildings and is rarely perceived as a problem outdoors. Typically, there is more adverse reaction to effects associated with the shaking of a building. Vibration energy propagates from a source through intervening soil and rock layers to the foundations of nearby buildings. The vibration then propagates from the foundation throughout the remainder of the structure. Building vibration may be perceived by occupants as the motion of building surfaces, the rattling of items on shelves or hanging on walls, or a low-frequency rumbling noise. The rumbling noise is caused by the vibration of walls, floors, and ceilings that radiate sound waves. Annoyance from vibration often occurs when the vibration exceeds the threshold of perception by 10 dB or less. This is an order of magnitude below the damage threshold for normal buildings.

Table A: Definitions of Acoustical Terms

Term	Definitions
Decibel, dB	A unit of level that denotes the ratio between two quantities proportional to power, the number of decibels is 10 times the logarithm (to the base 10) of this ratio.
Frequency, Hz	Of a function periodic in time, the number of times that the quantity repeats itself in one second (i.e., number of cycles per second).
A-Weighted Sound Level, dBA	The sound level obtained by use of A-weighting. The A-weighting filter deemphasizes the very low and very high frequency components of the sound in a manner similar to the frequency components of the sound in a manner similar to the frequency response of the human ear and correlates well with subjective reactions to noise. All sound levels in this assessment are A-weighted, unless reported otherwise.
L_{01}, L_{10}, L_{50}, L_{90}	The fast A-weighted noise levels equaled or exceeded by a fluctuating sound level for 1 percent, 10 percent, 50 percent, and 90 percent of a stated time period.
Equivalent Continuous Noise Level, L_{eq}	The level of a steady sound that, in a stated time period and at a stated location, has the same A-weighted sound energy as the time varying sound.
Community Noise Equivalent Level, CNEL	The 24-hour A-weighted average sound level from midnight to midnight, obtained after the addition of 5 dB to sound levels occurring in the evening from 7:00 p.m. to 10:00 p.m. and after the addition of 10 dB to sound levels occurring in the night between 10:00 p.m. and 7:00 a.m.
Day/Night Noise Level, L_{dn}	The 24-hour A-weighted average sound level from midnight to midnight, obtained after the addition of 10 dB to sound levels occurring in the night between 10:00 p.m. and 7:00 a.m.
L_{max}, L_{min}	The maximum and minimum A-weighted sound levels measured on a sound level meter, during a designated time interval, using fast time averaging.
Ambient Noise Level	The all-encompassing noise associated with a given environment at a specified time, usually a composite of sound from many sources at many directions, near and far; no particular sound is dominant.
Intrusive	The noise that intrudes over and above the existing ambient noise at a given location. The relative intrusiveness of a sound depends upon its amplitude, duration, frequency, and time of occurrence and tonal or informational content, as well as the prevailing ambient noise level.

Sources: *Technical Noise Supplement* (Caltrans 2013) and *Transit Noise and Vibration Impact Assessment Manual* (FTA 2018).
Caltrans = California Department of Transportation
FTA = Federal Transit Administration

Table B: Common Sound Levels and Noise Sources



Source: LSA (2016).

dBA = A-weighted decibel

Typical sources of ground-borne vibration are construction activities (e.g., blasting, pile driving, and operating heavy-duty earthmoving equipment), steel-wheeled trains, and occasional traffic on rough roads. As presented in the Federal Transit Administration's (FTA) *Transit Noise and Vibration Impact Assessment Manual* (Federal Transit Administration 2018) (FTA Manual), problems with both ground-borne vibration and noise from these sources are usually localized to areas within approximately 100 feet (ft) of the vibration source, although there are examples of ground-borne vibration causing interference out to distances greater than 200 ft. When roadways are smooth, vibration from traffic, even heavy trucks, is rarely perceptible. It is assumed for most projects that the roadway surface will be smooth enough that ground-borne vibration from street traffic will not exceed the impact criteria; however, the construction of the project could result in ground-borne vibration that may be perceptible and annoying.

Ground-borne vibration has the potential to disturb people and damage buildings. Although it is very rare for typical construction activities to cause even cosmetic building damage, it is not uncommon for construction processes such as blasting and pile driving to cause vibration of sufficient amplitudes to damage nearby buildings. Ground-borne vibration is usually measured in terms of vibration velocity, either the root-mean-square (RMS) velocity or peak particle velocity (PPV). The RMS is best for characterizing human response to building vibration, and PPV is used to characterize potential for damage. Decibel notation acts to compress the range of numbers required to describe vibration. Vibration velocity level in decibels is defined as:

$$L_v = 20 \log_{10} [V/V_{ref}]$$

where L_v is the vibration velocity in decibels (VdB), "V" is the RMS velocity amplitude, and "V_{ref}" is the reference velocity amplitude, or 1 x 10^{-6} inches/second (in/sec) used in the United States.

APPLICABLE NOISE STANDARDS

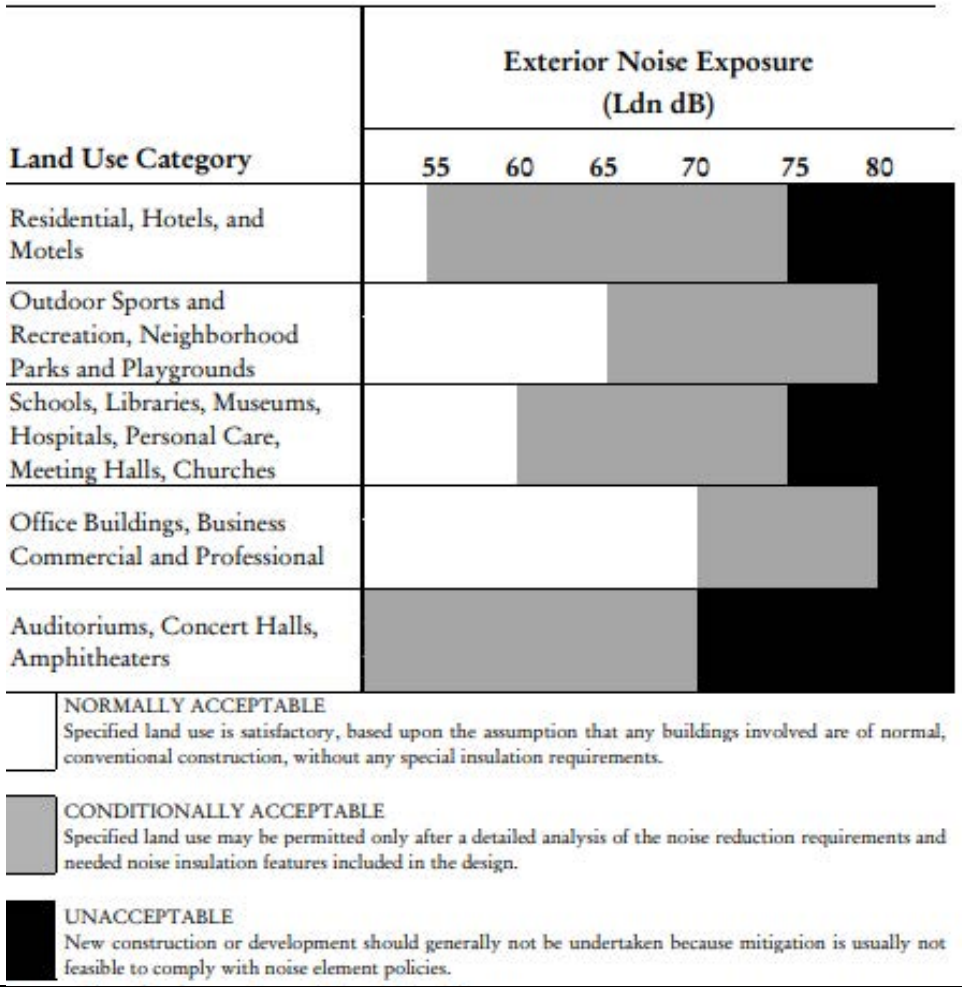
The following information provides standards to which potential noise impacts will be compared. Where exceedances have been identified, impacts will be described, and mitigation will be recommended.

City of Lafayette General Plan

The Noise Element of the City's General Plan (City of Lafayette 2002) is intended to identify sources of noise and provide objectives and policies that ensure that noise from various sources does not create an unacceptable noise environment. Overall, the City's Noise Element describes the noise environment (including noise sources) in Lafayette; addresses noise mitigation regulations, strategies, and programs; and delineates federal, State, and City authority relative to rail, automotive, aircraft, and nuisance noise.

The City's noise standards correlate with land use zoning classifications to maintain identified ambient noise levels and to limit, mitigate, or eliminate intrusive noise that exceeds the ambient noise levels within a specified zone. As shown in Table C, the City has adopted local guidelines based, in part, on the community noise compatibility guidelines established by the Governor's Office of Planning and Research for use in assessing the compatibility of various land use types with a range of noise levels. For ambient noise of up to 55 dBA L_{dn}, the development of multifamily residential projects are considered "normally acceptable", and for ambient noise levels ranging from 55 dBA L_{dn} to 75 dBA L_{dn}, development of multifamily residential projects is considered "conditionally acceptable." Under "conditionally acceptable" conditions, the specified land use may be permitted only after a detailed analysis of the noise reduction requirements and needed noise insulation feature included in the design.

Table C: City of Lafayette Noise and Land Use Compatibility Guidelines


Exterior Noise Exposure
(Ldn dB)
Land Use Category
55
60
65
70
75
80
Residential, Hotels, and Motels
Outdoor Sports and Recreation, Neighborhood Parks and Playgrounds
Schools, Libraries, Museums, Hospitals, Personal Care, Meeting Halls, Churches
Office Buildings, Business Commercial and Professional
Auditoriums, Concert Halls, Amphitheaters
NORMALLY ACCEPTABLE
Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal, conventional construction, without any special insulation requirements.
CONDITIONALLY ACCEPTABLE
Specified land use may be permitted only after a detailed analysis of the noise reduction requirements and needed noise insulation features included in the design.
UNACCEPTABLE
New construction or development should generally not be undertaken because mitigation is usually not feasible to comply with noise element policies.

Source: City of Lafayette General Plan Noise Element (October 2002).
L_{dn} = day/night noise level
dB = decibels

The Noise Element provides the City's goals and policies related to noise, including the land use compatibility guidelines for community exterior noise environments. The City has identified the following goals, policies, and programs in the Noise Element that apply to the project.

Goal N-1. Ensure that all new development is consistent with standards for noise.

Policy N-1.2 Reduce Noise Impacts: Avoid or reduce noise impacts first through site planning and project design. Barriers and structural changes may be used as mitigation techniques only when planning and design prove insufficient.

Program N-1.2.2: Evaluate mitigation measures for projects that would cause a "substantial increase" in noise as defined by the following criteria or

would generate unusual noise which could cause significant adverse community response:

a. cause the L_{dn} in existing residential areas to increase by 3 dB or more;

b. cause the L_{dn} in existing residential areas to increase by 2 dB or more if the Ldn would exceed 70 dB; or

c. cause the L_{dn} resulting exclusively from project-generated traffic to exceed an Ldn of 60 dBA at any existing residence.

Policy N-1.4 Residential and Noise Sensitive Land Use Standards: Require a standard of 40-45 L_{dn} (depending on location) for indoor noise level for all new residential development including hotels and motels, and a standard of 55 Ldn for outdoor noise, except near the freeway. These limits shall be reduced by 5 dB for senior housing and residential care facilities.

Program N-1.4.1: Use the standards in Policy N-1.2.2 to determine the need for noise studies and require new developments to provide noise attenuation features as a condition of approving new projects.

Program N-1.4.2: Require an acoustical study for all new residential projects with a future L_{dn} noise exposure of 55 L_{dn} or greater. The study shall describe how the project will comply with the Noise and Land Use Compatibility Standards. The studies shall also satisfy the requirements set forth in Title 24, part 2 of the California Government Code, Noise Insulation Standards, for multi-family attached dwellings, hotels, motels, etc. regulated by Title 24.

City of Lafayette Municipal Code

The City of Lafayette Municipal Code (City of Lafayette 2020) addresses noise in Chapter 5-2, Noise. Section 5-205, Maximum permissible noise levels by receiving land use, specifies outdoor noise levels that cannot be exceeded at adjacent properties for a specified period, as presented in Table D. The allowed noise level standards presented in Table D shall not be exceeded:

- For a cumulative period of more than thirty minutes in any hour; or
- The noise standard plus five dB(A) for a cumulative period of more than 15 minutes in any hour; or
- The noise standard plus ten dB(A) for a cumulative period of more than 5 minutes in any hour; or
- The noise standard plus fifteen dB(A) for a cumulative period of more than 1 minute in any hour; or
- The noise standard plus twenty dB(A) for any period of time.

Table D: City of Lafayette Noise Standards

Receiving Land Use Category	Daytime (7:00 a.m. to 10:00 p.m.) dBA	Nighttime (10:00 p.m. to 7:00 a.m.) dBA
Single-family residential	50	45
Multi-family residential, schools, libraries, public spaces	55	50
Commercial	55	60

Source: *City of Lafayette Municipal Code* (2023).
dBA = A-weighted decibels

Section 5-207, Prohibited Acts, states that air conditioning and air-handling equipment should operate in such a manner as to not exceed 45 dBA at any point on neighboring residential property line.

Municipal Code Section 5-207, Prohibited acts, (e) states:

> (e) Construction. Operating or causing the operation of any tools or equipment used in construction, drilling, repair, alteration or demolition work between the hours of ten p.m. and seven a.m. on weekdays, or at any time on Sundays or holidays, such that the sound therefrom creates a noise disturbance across a residential or commercial real property line or at any time violates the provisions of Section 5-205, except for emergency work of public service utilities.

Section 5-208, Special provisions, (d) states:

> (d) Construction and Maintenance. Notwithstanding any other provision of this chapter, between the hours of eight a.m. and eight p.m. on weekdays and between the hours of ten a.m. and six p.m. on Sundays and holidays, construction, alteration and repair activities which are authorized by a valid city permit; and maintenance activities such as lawn mowing, rotovating, tree trimming and painting, which require no city permit (but not including the operation of stationary, installed equipment, such as swimming pool and air-conditioning motors and devices), shall be allowed if they meet at least one of the following noise limitations:
>
> (1) No individual piece of equipment shall produce a noise level exceeding 83 dBA at a distance of 50 feet. If the device is housed within a structure on the property, the measurement shall be made outside the structure at a distance as close to 25 feet from the equipment as possible.
>
> (2) The noise level at the nearest affected property shall not exceed 80 dBA.

APPLICABLE VIBRATION STANDARDS

Given the City has not established its own vibration impact criteria, the following information provides standards to which potential vibration impacts will be compared. Vibration standards

included in the FTA Manual are used in this analysis for ground-borne vibration impacts on human annoyance and potential damage.

Federal Transit Administration

Table E provides the criteria for assessing the potential for interference or annoyance from vibration levels in a building. The criteria for annoyance impacts resulting from ground-borne vibration and noise are based on the average vibration levels during construction.

Table E: Criteria for Potential Vibration Annoyance

Land Use	Max L_v (VdB)[1]	Description of Use
Workshop	90	Distinctly feelable vibration. Appropriate to workshops and non-sensitive areas.
Office	84	Feelable vibration. Appropriate to offices and non-sensitive areas.
Residential Day	78	Feelable vibration. Appropriate for computer equipment and low-power optical microscopes (up to 20X).
Residential Night and Operating Rooms	72	Vibration not feelable, but ground-borne noise may be audible inside quiet rooms. Suitable for medium-power microscopes (100X) and other equipment of low sensitivity.

Source: *Transit Noise and Vibration Impact Assessment Manual* (FTA 2018).

[1] As measured in 1/3-octave bands of frequency over the frequency range 8 to 80 Hz.

FTA = United States Federal Transit Administration
Hz = hertz
L_V = velocity in decibels
Max = maximum
VdB = vibration velocity decibels

Table F provides the criteria for assessing the potential for damage from vibration levels generated during construction to surrounding structures. The criteria for annoyance impacts resulting from ground-borne vibration and noise are based on the maximum vibration levels during construction at the project property line.

Table F: Construction Vibration Damage Criteria

Building Category	PPV (in/sec)
Reinforced concrete, steel, or timber (no plaster)	0.50
Engineered concrete and masonry (no plaster)	0.30
Non-engineered timber and masonry buildings	0.20
Buildings extremely susceptible to vibration damage	0.12

Source: *Transit Noise and Vibration Impact Assessment Manual* (FTA 2018).

in/sec = inches per second
PPV = peak particle velocity
FTA = United States Federal Transit Administration

THRESHOLDS OF SIGNIFICANCE

Based on *Guidelines for the Implementation of the California Environmental Quality Act*, Appendix G, Public Resources Code, Sections 15000–15387, a project will normally have a significant effect on the environment related to noise if it will substantially increase the ambient noise levels for adjoining areas or conflict with adopted environmental plans and the goals of the community in which it is located. The following are the thresholds for potential noise impacts.

The *State CEQA Guidelines* indicate that a project would have a significant impact on noise if it would result in:

- Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies;
- Generation of excessive ground-borne vibration or ground-borne noise levels; or
- For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, expose people residing or working in the project area to excessive noise levels.

OVERVIEW OF THE EXISTING NOISE ENVIRONMENT

The primary existing noise sources in the project area are transportation facilities, including SR-24, Oak Hill Road, and Mount Diablo Boulevard.

To assess the existing noise conditions in the area, long-term noise measurements were conducted at the project site. Two long-term, 24-hour measurements were taken from Tuesday, July 19, 2022, to Thursday, July 21, 2022. The locations of the noise measurements are shown on Figure 3 (see Attachment A) and the results are summarized in Table G. Noise measurement data are provided in Attachment A of this analysis.

Table G: Existing Noise Level Measurements

Location	Location Description	Date	Daytime Noise Levels[1] (dBA L_{eq})	Nighttime Noise Levels[2] (dBA L_{eq})	Daily Noise Levels (dBA L_{dn})	Average Daily Noise Levels (dBA L_{dn})
LT-1	West of site, on a big tree by the upper parking lot, next to "The Stuart Company" building (1009).	7/19/2022	57.5 – 61.6	50.8 – 60.1	63.0	63.0
		7/20/2022	57.9 – 61.1	51.4 – 59.6	63.0	
LT-2	North of site, on the rail of the upper terrace of building (LMK Interiors). Approximately 160 ft west of Oak Hill Road centerline.	7/19/2022	64.8 – 68.0	57.8 – 66.8	70.0	70.0
		7/20/2022	63.7 – 67.8	58.1 – 66.7	70.0	

Source: Compiled by LSA (September 2024).
[1] Daytime Noise Levels = noise levels during the hours of 7:00 a.m. to 10:00 p.m.
[2] Nighttime Noise Levels = noise levels during the hours of 10:00 p.m. to 7:00 a.m.
dBA = A-weighted decibels
ft = foot/feet
L_{dn} = day-night Level
L_{eq} = equivalent continuous sound level

Aircraft Noise

The project site is approximately 7 miles southwest of Buchanan Field Airport (a public airport). Based on a review of the maps within the *Buchanan Field Airport Policies* of the Contra Costa County Airport Land Use Compatibility Plan (County of Contra Costa December 2000), the project site is well

outside of the 60 dBA CNEL contours. Additionally, the project site is not in a flight pattern area (i.e., takeoff or landing) for any airport or private airstrip. Because the proposed project and surrounding sensitive uses are all outside of the 60 dBA CNEL contours, no further analysis is necessary.

Sensitive Land Uses in the Project Vicinity

Certain land uses are considered more sensitive to noise than others. Examples of these include residential areas, educational facilities, hospitals, childcare facilities, and senior housing. Land uses adjacent to the project site include:

- **East:** Existing commercial uses opposite Oak Hill Road
- **South:** Existing multifamily residences approximately 45 ft from the project site property line
- **West:** Existing multifamily residences approximately 15 ft from the project site property line

PROJECT IMPACT ANALYSIS

The proposed project would result in short-term construction noise and vibration impacts and long-term mobile source noise and vibration impacts as described below.

Short-Term Construction-Related Impact Analysis

Project construction would result in short-term noise and vibration. Maximum construction noise would be short-term, generally intermittent depending on the construction phase, and variable depending on receiver distance from the active construction zone. The duration of various types of construction noise and vibration would vary from 1 day to several weeks depending on the phase of construction. The level and types of impacts that may occur during construction are described below.

Construction Noise Analysis

Two types of short-term noise would occur during project construction, including (1) equipment delivery and construction worker commutes; and (2) project construction operations.

The first type of short-term construction noise would result from the transport of construction equipment and materials to the project site and construction worker commutes. These transportation activities would incrementally raise noise levels on access roads leading to the site. It is expected that larger trucks used in equipment delivery would generate higher noise impacts than trucks associated with worker commutes. The single-event noise from equipment trucks passing at a distance of 50 ft from a sensitive noise receptor would reach a maximum level of 84 dBA L_{max}. However, the pieces of heavy equipment for construction activities would be moved on site just one time and would remain on site for the duration of each construction phase. This one-time trip, when heavy construction equipment is moved on and off site, would not add to the daily traffic noise in the project vicinity. The total number of daily vehicle trips would be minimal when compared to existing traffic volumes on the affected streets, and the long-term noise level changes associated with these trips would not be perceptible. Therefore, equipment transport noise and construction-

related worker commute impacts would be short term and would not result in a significant off-site noise impact. No mitigation is required.

The second type of short-term noise impact is related to noise generated during demolition, site preparation, building construction, architectural coating, and paving on the project site. Construction is undertaken in discrete steps, each of which has its own mix of equipment and, consequently, its own noise characteristics. These various sequential phases would change the character of the noise generated on the project site. Therefore, the noise levels vary as construction progresses. Despite the variety in the type and size of construction equipment, similarities in the dominant noise sources and patterns of operation allow construction-related noise ranges to be categorized by work phase. Table H lists the maximum noise levels recommended for noise impact assessments for typical construction equipment based on a distance of 50 ft between the construction equipment and a noise receptor. Typical operating cycles for these types of construction equipment may involve 1–2 minutes of full power operation followed by 3–4 minutes at lower power settings.

Table H: Typical Construction Equipment Noise Levels

Equipment Description	Acoustical Usage Factor (%)	Maximum Noise Level (L_{max}) at 50 ft
Auger	20	85
Concrete Mixer	40	85
Concrete Pump	40	85
Crane	16	83
Dozer	40	80
Forklift	20	75
Front [End] Loader	40	79
Generator	100	78
Grader	8	85
Scraper	40	88
Welder	40	74

Source: Roadway Construction Noise Model (Federal Highway Administration 2006).
ft = foot/feet
L_{max} = maximum instantaneous sound level

In addition to the reference maximum noise level, the usage factor provided in Table H is used to calculate the hourly noise level impact for each piece of equipment based on the following equation:

$$L_{eq}(equip) = E.L. + 10\log(U.F.) - 20\log\left(\frac{D}{50}\right)$$

where: $L_{eq}(equip)$ = L_{eq} at a receiver resulting from the operation of a single piece of equipment over a specified time period

E.L. = Noise emission level of the particular piece of equipment at a reference distance of 50 ft

U.F. = Usage factor that accounts for the fraction of time that the equipment is in use over the specified period of time

D = Distance from the receiver to the piece of equipment

Each piece of construction equipment operates as an individual point source. Using the following equation, a composite noise level can be calculated when multiple sources of noise operate simultaneously.

$$Leq\ (composite) = 10 * \log_{10}\left(\sum_{1}^{n} 10^{\frac{Ln}{10}}\right)$$

Using the equations from the methodology above and the reference information in Table I and the construction equipment list provided, the composite noise level of each construction phase was calculated. The project construction composite noise levels at a distance of 50 feet would range from 74 dBA L_{eq} to 88 dBA L_{eq}, with the highest noise levels occurring during the site preparation phase.

Table I: Potential Construction Noise Impacts by Phase

Phase	Equipment (Quantity)	Composite Noise Level at 50 feet (dBA L_{eq})
Demolition	Concrete Saw (1), Tractors (3), Dozers (2)	87
Site Preparation	Tractors (4), Dozers (3)	88
Grading	Grader (1), Excavator (1), Tractors (3), Dozer (1)	87
Building Construction	Crane (1), Forklifts (3), Generator (1), Welder (1), Tractors (3)	86
Paving	Pavers (2), Paving Equipment (2), Rollers (2)	86
Architectural Coating	Air Compressor (1)	74

Source: Compiled by LSA (2022).
dBA L_{eq} = average A-weighted hourly noise level

Once composite noise levels are calculated, reference noise levels can then be adjusted for distance using the following equation:

$$Leq\ (at\ distance\ X) = Leq\ (at\ 50\ feet) - 20 * \log_{10}\left(\frac{X}{50}\right)$$

In general, this equation shows that doubling the distance would decrease noise levels by 6 dBA while halving the distance would increase noise levels by 6 dBA.

Table J shows the nearest sensitive uses that surround the project site, the distances of their respective property lines from the center of construction activities, and noise levels expected during demolition activities. These noise level projections do not consider intervening topography or barriers. Construction equipment calculations are provided in Attachment C.

Table J: Potential Construction Noise Impacts at Nearby Receptors

Receptor (Location)	Distance (feet)	Noise Level (dBA L_{eq})
Multifamily residence (West)	130	79
Multifamily residence (South)	155	78

Source: Compiled by LSA (2022).
dBA L_{eq} = average A-weighted hourly noise level

While construction noise will vary, it is expected that composite noise levels during construction at the nearest off-site residential uses to the west would reach an average noise level of 79 dBA L_{eq} during daytime hours. Average noise levels during other construction phases would range from 67 dBA L_{eq} to 78 dBA L_{eq} at the nearest receptor. These predicted noise levels would only occur when all construction equipment is operating simultaneously and, therefore, are assumed to be rather conservative in nature. While construction-related short-term noise levels have the potential to be higher than existing ambient noise levels in the project area under existing conditions, the noise impacts would no longer occur once project construction is completed.

Construction-related noise levels at the nearest receptor locations would remain below the 80 dBA L_{eq} construction noise level criteria and, therefore, would be considered less than significant.

As stated above, the City's Noise Ordinance regulates construction activities. The proposed project would comply with the construction hours specified in the City's Noise Ordinance, which states that construction activities are allowed between the hours of 8:00 a.m. and 8:00 p.m. on weekdays and between the hours of 10:00 a.m. and 6:00 p.m. on Sundays and holidays. With compliance with the requirements of the Noise Ordinance and implementation of the following standard construction procedures, the overall noise levels generated would be minimized, and construction noise impacts would be less than significant. No mitigation is required.

Construction Vibration Building Damage Potential

This construction vibration impact analysis assesses the potential for building damage using vibration levels in PPV (in/sec). Table K shows the PPV and VdB values at 25 ft from the construction vibration source. As shown in Table K, bulldozers and other heavy-tracked construction equipment (expected to be used for this project) generate approximately 0.089 PPV in/sec of ground-borne vibration when measured at 25 ft, based on the FTA Manual. The distance to the nearest buildings for vibration impact analysis is measured between the nearest off-site buildings and the project construction boundary (assuming the construction equipment would be used at or near the project setback line).

Table K: Vibration Source Amplitudes for Construction Equipment

Equipment	Reference Level at 25 ft	
	PPV (in/sec)	L_V (VdB)[1]
Vibratory Roller	0.210	94
Large Bulldozer/Caisson Drilling	0.089	87
Loaded Trucks	0.076	86
Jackhammer	0.035	79
Small Bulldozer	0.003	58

Source: Caltrans Transportation and Construction Vibration Guidance Manual (2013).

1. RMS VdB re 1 µin/sec.

µin/sec = microinch(es) per second
in/sec = inch(es) per second
Caltrans = California Department of Transportation
LV = velocity in decibels
PPV = peak particle velocity
RMS = root-mean-square
VdB = vibration velocity in decibels

The formulae for vibration transmission are provided below, and Table L provides a summary of off-site construction vibration levels.

$$L_vdB\ (D) = L_vdB\ (25\ feet) - 30\ Log\ (D/25)$$

$$PPV_{equip} = PPV_{ref} \times (25/D)^{1.5}$$

The FTA guidelines indicate that for non-engineered timber and masonry building, the construction vibration damage criterion is 0.2 in/sec in PPV.

As shown in Table L, The nearest off-site structures, which are associated with the existing residences to the west, are approximately 15 ft from the project construction boundaries. Using site specific equipment assumed for this project, similar to a large bulldozer, would generate ground-borne vibration levels of up to 0.191 in/sec PPV at the closest structure to the project site. This vibration level would not exceed the 0.2 in/sec PPV threshold considered safe for non-engineered timber and masonry buildings. Therefore, impacts associated with construction vibration damage potential would be less than significant.

Table L: Potential Construction Vibration Damage Impacts at Nearest Receptor

Receptor (Location)	Reference Vibration Level (PPV) at 25 ft[1]	Distance (ft)[2]	Vibration Level (PPV)
Residential (West)	0.089	15	0.191
Residential (South)		20	0.124

Source: Compiled by LSA (2022).

1 The reference vibration level is associated with a large bulldozer, which is expected to be representative of the heavy equipment used during construction.

2 The reference distance is associated with the peak condition, identified by the distance from the perimeter of construction activities to surrounding structures.

ft = foot/feet
PPV = peak particle velocity

Construction Vibration Human Annoyance Potential

The closest area at which humans may be potentially impacted by construction vibration annoyance is the existing residences to the west of the project site, approximately 130 ft from the center of the project site. This receptor site would experience vibration levels approaching 66 VdB. This vibration level would not result in community annoyance because vibration levels would not exceed the FTA Manual community annoyance threshold of 72 VdB, which is generally considered not noticeable. All other buildings are farther away and would experience lower impacts. Therefore, this level of ground-borne vibration would be less than significant for human annoyance. No mitigation is required.

Long-Term Off-Site Traffic Noise Impact Analysis

Compared to the trip generation of the existing on-site uses that would be demolished as part of the project, the proposed project is anticipated to generate a net increase of 24 daily trips based on the *Transportation Impact Analysis for the Oak Hill Road Project* (LSA 2024). According to the City of Lafayette Traffic Count Map (City of Lafayette Traffic Counts 2009) the existing (2009) ADT on Oak Hill Road is 10,700. While the current traffic volume on Oak Hill Road is likely higher, using the 2009 volumes would be considered conservative. The following equation was used to determine the potential impacts of the project:

$$\text{Change in CNEL} = 10\ log_{10}\ [V_{(e+p)}/V_{(existing)}]$$

where: $V_{existing}$ = existing daily volumes
V_{e+p} = existing daily volumes plus project
Change in CNEL = increase in noise level due to the project

The results of the calculations show that an increase of approximately 0.01 dBA CNEL is expected along Oak Hill Road. A noise level increase of less than 1 dBA would not be perceptible to the human ear; therefore, the traffic noise increase in the vicinity of the project site resulting from the proposed project would be less than significant.

Long-Term Operational Noise Impact Analysis

Stationary Operational Noise Impacts to Off-Site Receivers

Potential long-term noise impacts would be associated with stationary sources proposed on the project site. Stationary noise sources from the proposed project would include noise generated from on-site heating, ventilation, and air conditioning (HVAC) noise.

Heating, Ventilation, and Air Conditioning Equipment. Adjacent off-site land uses would be potentially exposed to stationary-source noise impacts from the proposed on-site HVAC equipment. The HVAC equipment could operate 24 hours per day. Based on previous measurements LSA has conducted, the HVAC equipment would generate noise levels of 66.6 dBA L_{eq} at 5 ft per HVAC unit. The closest off-site sensitive use during operation of the proposed project would be the existing residences west of the project site. Per the building plans for the proposed project, the proposed

building would have parapet walls to hide the mechanical equipment, which would reduce noise levels by a minimum of 5 dBA, resulting in a reference level of 72.4 dBA L_{eq} at 5 ft from each bank of HVAC units. After distance attenuation, noise generated from the closest banks of HVAC equipment would be up to 48.4 dBA L_{eq} at the nearest sensitive use, as shown in Table M. This noise level would not exceed the City's noise standards of 55 and 50 dBA L_{eq} for daytime and nighttime hours, respectively. While this noise level does exceed the City's noise standards of 45 dBA L_{eq} for air conditioning units, the projected noise level would be below the quietest existing ambient noise levels of 50.8 dBA L_{eq} as shown in Table G at the nearest off-site sensitive building façade. Therefore, the impact would be less than significant, and no noise reduction measures are required.

Table M: Summary of HVAC Noise Levels

Off-Site Land Use (Direction)	Distance from HVAC Units (ft)	Reference Noise Level for 1 Unit at 5 ft (dBA L_{eq})	Reference Noise for a Bank of 12 Units at 5 ft (dBA L_{eq})[1]	Distance Attenuation (dBA)	Noise Level (dBA L_{eq})
Residential building (West)	75	66.6	72.4	24	48.4

Source: Compiled by LSA (2024).
[1] Includes a minimum reduction of 5 dBA provided by rooftop parapet walls.
dBA = A-weighted decibel(s)
ft = foot/feet
HVAC = heating, ventilation, and air conditioning
L_{eq} = equivalent continuous sound level

Long-Term Ground-Borne Noise and Vibration from Vehicular Traffic

Because the rubber tires and suspension systems of buses and other on-road vehicles provide vibration isolation and reduce noise, it is unusual for on-road vehicles to cause ground-borne noise or vibration. When on-road vehicles cause such effects as the rattling of windows, the source is almost always airborne noise. Most problems with on-road vehicle-related noise and vibration can be directly related to a pothole, bump, expansion joint, or other discontinuity in the road surface. Smoothing the bump or filling the pothole will usually solve the problem. The proposed project would have roads with smooth pavement and would not result in significant ground-borne noise or vibration impacts from vehicular traffic. No mitigation is required.

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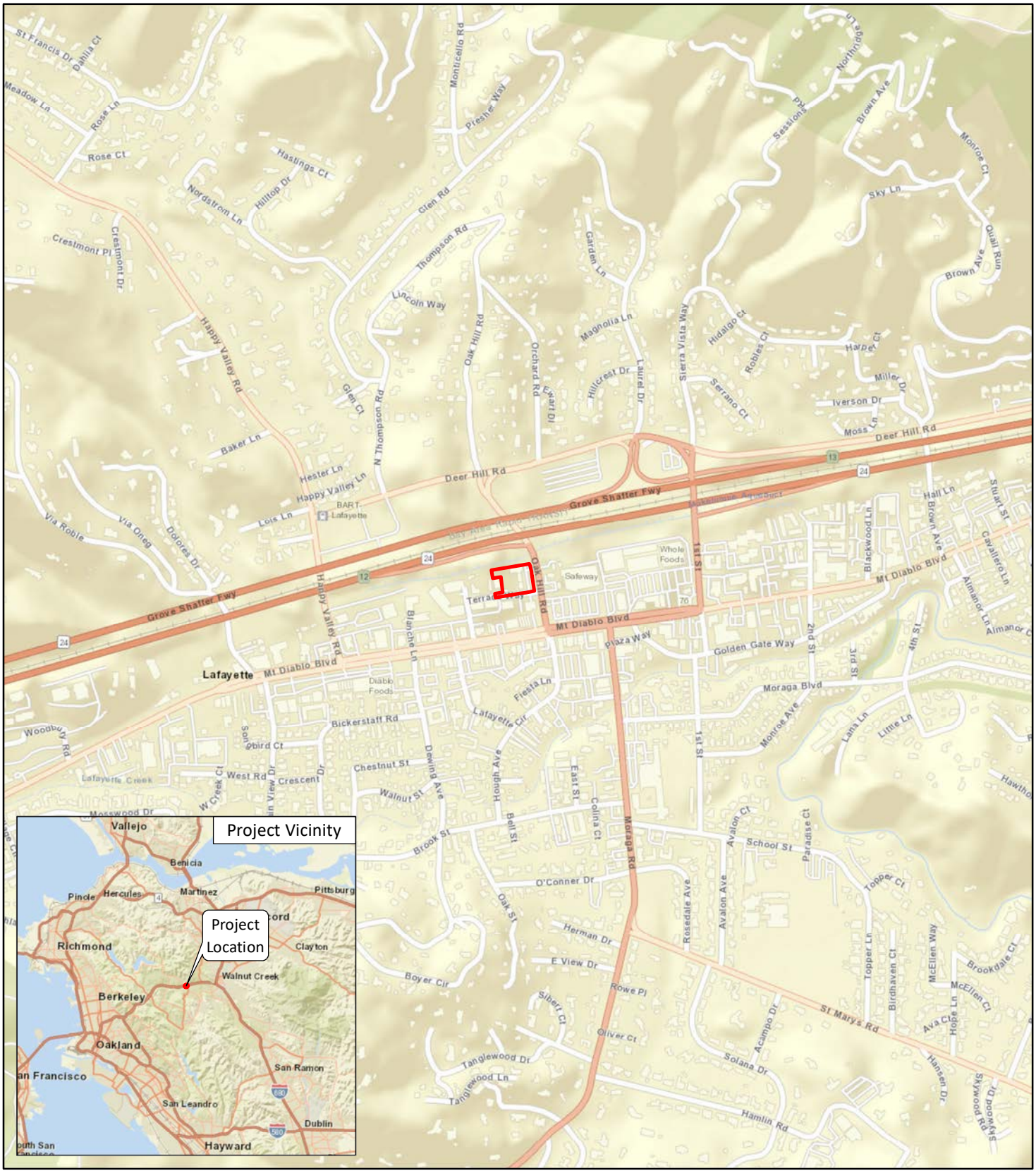
ATTACHMENTS

Attachment A: Figures 1-3
Attachment B: Noise Measurement Data
Attachment C: Construction Noise Calculations

ATTACHMENT A

FIGURES



LSA

LEGEND

Project Area

FIGURE 1

N

0 500 1000

FEET

Oak Hill Project

Lafayette, Contra Costa County, California

Regional Location

SOURCE: Esri World Street Map (2022)

I:\DMD2201\GIS\MXD\RegionalLocation.mxd (7/21/2022)

LSA

LEGEND

Project Area

FIGURE 2

N

0 50 100

FEET

SOURCE: Google (2021)

I:\DMD2201\GIS\MXD\ProjectArea.mxd (7/21/2022)

Oak Hill Project
Lafayette, Contra Costa County, California
Project Vicinity

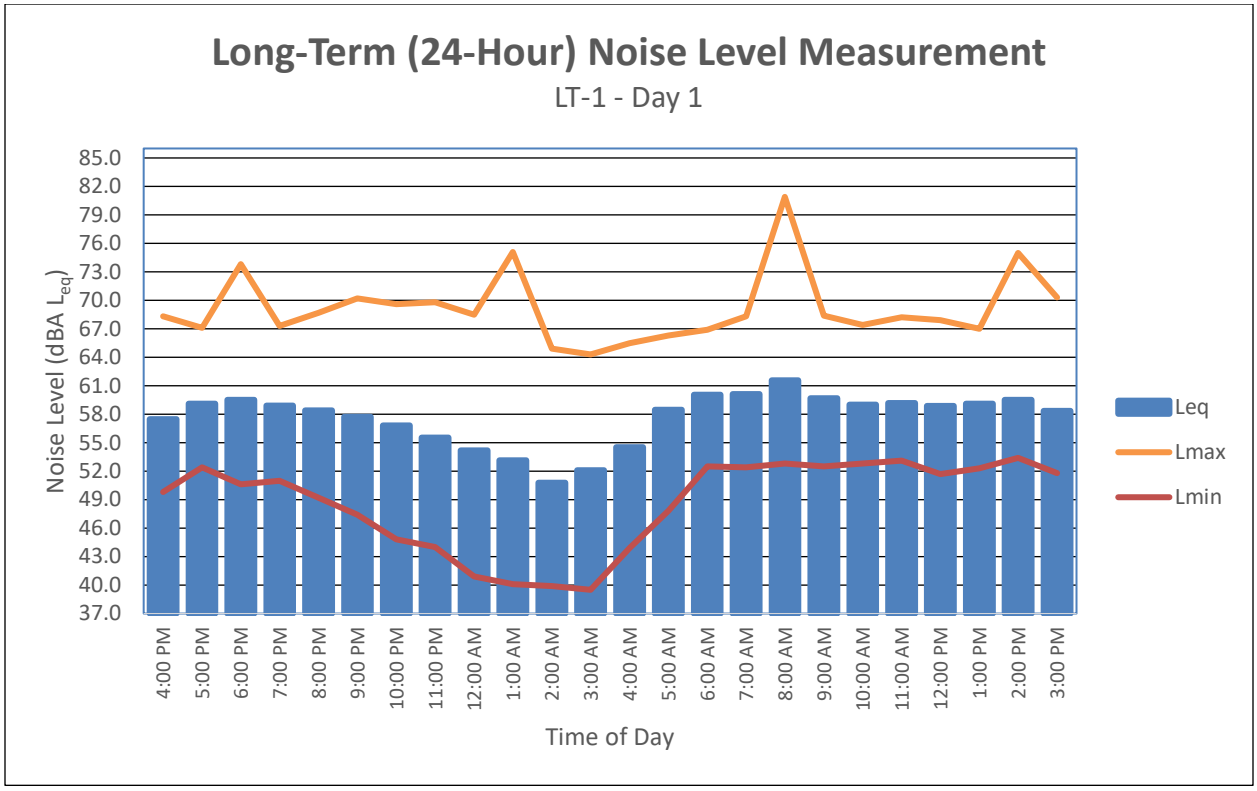
ATTACHMENT B

NOISE MEASUREMENT DATA

Long-Term (24-Hour) Noise Level Measurement Results at LT-1 – Day 1

Start Time	Date	Noise Level (dBA)		
		L_{eq}	L_{max}	L_{min}
4:00 PM	7/19/2022	57.5	68.3	49.8
5:00 PM	7/19/2022	59.1	67.1	52.4
6:00 PM	7/19/2022	59.5	73.8	50.6
7:00 PM	7/19/2022	58.9	67.3	51.0
8:00 PM	7/19/2022	58.4	68.7	49.2
9:00 PM	7/19/2022	57.7	70.2	47.4
10:00 PM	7/19/2022	56.8	69.6	44.8
11:00 PM	7/19/2022	55.5	69.8	44.0
12:00 AM	7/20/2022	54.2	68.5	40.9
1:00 AM	7/20/2022	53.1	75.1	40.1
2:00 AM	7/20/2022	50.8	64.9	39.9
3:00 AM	7/20/2022	52.1	64.3	39.5
4:00 AM	7/20/2022	54.5	65.5	43.9
5:00 AM	7/20/2022	58.5	66.3	47.8
6:00 AM	7/20/2022	60.1	66.9	52.5
7:00 AM	7/20/2022	60.1	68.3	52.4
8:00 AM	7/20/2022	61.6	80.9	52.8
9:00 AM	7/20/2022	59.7	68.4	52.5
10:00 AM	7/20/2022	59.0	67.4	52.8
11:00 AM	7/20/2022	59.2	68.2	53.1
12:00 PM	7/20/2022	58.9	67.9	51.7
1:00 PM	7/20/2022	59.1	67.0	52.3
2:00 PM	7/20/2022	59.5	75.0	53.4
3:00 PM	7/20/2022	58.4	70.3	51.8

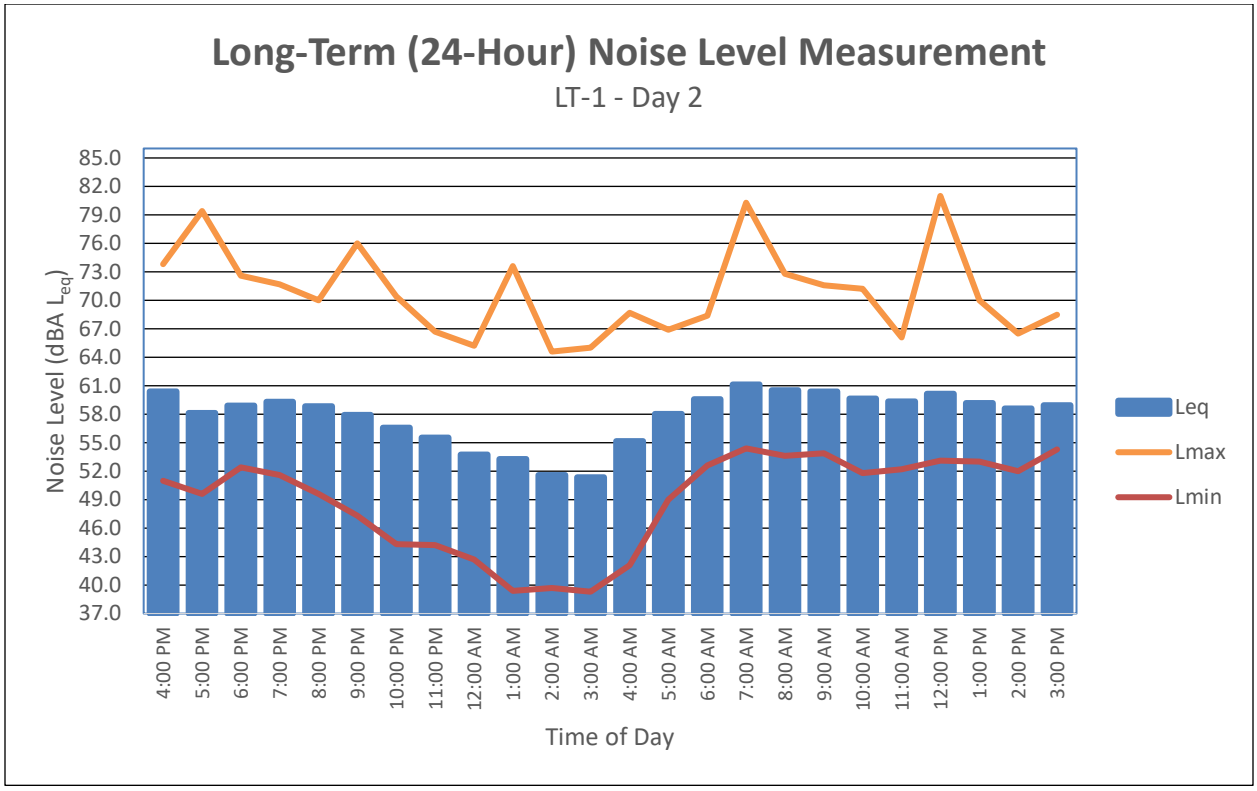
Source: Compiled by LSA Associates, Inc. (2022).
dBA = A-weighted decibel
L_{eq} = equivalent continuous sound level
L_{max} = maximum instantaneous noise level
L_{min} = minimum measured sound level


Long-Term (24-Hour) Noise Level Measurement
LT-1 - Day 1
Noise Level (dBA Leq)
85.0
82.0
79.0
76.0
73.0
70.0
67.0
64.0
61.0
58.0
55.0
52.0
49.0
46.0
43.0
40.0
37.0
4:00 PM
5:00 PM
6:00 PM
7:00 PM
8:00 PM
9:00 PM
10:00 PM
11:00 PM
12:00 AM
1:00 AM
2:00 AM
3:00 AM
4:00 AM
5:00 AM
6:00 AM
7:00 AM
8:00 AM
9:00 AM
10:00 AM
11:00 AM
12:00 PM
1:00 PM
2:00 PM
3:00 PM
Time of Day
Leq
Lmax
Lmin

Long-Term (24-Hour) Noise Level Measurement Results at LT-1 – Day 2

Start Time	Date	Noise Level (dBA)		
		L_{eq}	L_{max}	L_{min}
4:00 PM	7/19/2022	60.4	73.8	51.0
5:00 PM	7/19/2022	58.1	79.4	49.6
6:00 PM	7/19/2022	58.9	72.6	52.4
7:00 PM	7/19/2022	59.3	71.7	51.6
8:00 PM	7/19/2022	58.8	70.0	49.6
9:00 PM	7/19/2022	57.9	76.0	47.3
10:00 PM	7/19/2022	56.6	70.4	44.3
11:00 PM	7/19/2022	55.5	66.7	44.2
12:00 AM	7/20/2022	53.8	65.2	42.7
1:00 AM	7/20/2022	53.3	73.6	39.4
2:00 AM	7/20/2022	51.6	64.6	39.7
3:00 AM	7/20/2022	51.4	65.0	39.3
4:00 AM	7/20/2022	55.2	68.7	42.1
5:00 AM	7/20/2022	58.0	66.9	49.0
6:00 AM	7/20/2022	59.6	68.4	52.6
7:00 AM	7/20/2022	61.1	80.3	54.4
8:00 AM	7/20/2022	60.5	72.8	53.6
9:00 AM	7/20/2022	60.4	71.6	53.9
10:00 AM	7/20/2022	59.7	71.2	51.8
11:00 AM	7/20/2022	59.3	66.1	52.2
12:00 PM	7/20/2022	60.2	81.0	53.1
1:00 PM	7/20/2022	59.2	70.0	53.0
2:00 PM	7/20/2022	58.6	66.5	52.0
3:00 PM	7/20/2022	58.9	68.5	54.3

Source: Compiled by LSA Associates, Inc. (2022).
dBA = A-weighted decibel
L_{eq} = equivalent continuous sound level
L_{max} = maximum instantaneous noise level
L_{min} = minimum measured sound level


Long-Term (24-Hour) Noise Level Measurement
LT-1 - Day 2
Noise Level (dBA Leq)
85.0
82.0
79.0
76.0
73.0
70.0
67.0
64.0
61.0
58.0
55.0
52.0
49.0
46.0
43.0
40.0
37.0
4:00 PM
5:00 PM
6:00 PM
7:00 PM
8:00 PM
9:00 PM
10:00 PM
11:00 PM
12:00 AM
1:00 AM
2:00 AM
3:00 AM
4:00 AM
5:00 AM
6:00 AM
7:00 AM
8:00 AM
9:00 AM
10:00 AM
11:00 AM
12:00 PM
1:00 PM
2:00 PM
3:00 PM
Time of Day
Leq
Lmax
Lmin

Noise Measurement Survey – 24 HR

Project Number: DMD2201
Project Name: Oak Hill Project

Test Personnel: Moe Abushanab
Equipment: Spark 906RC (SN:18904)

Site Number: LT-2 Date: 7/19/2022

Time: From 4:00 p.m. To 4:00 p.m.

Site Location: On the rail of upper terrace of building north of site (LMK interiors), approximately 160 feet west of Oak Hill Rd centerline.

Primary Noise Sources: Traffic on Freeway 24
Traffic on Oak Hill Rd. (secondary)

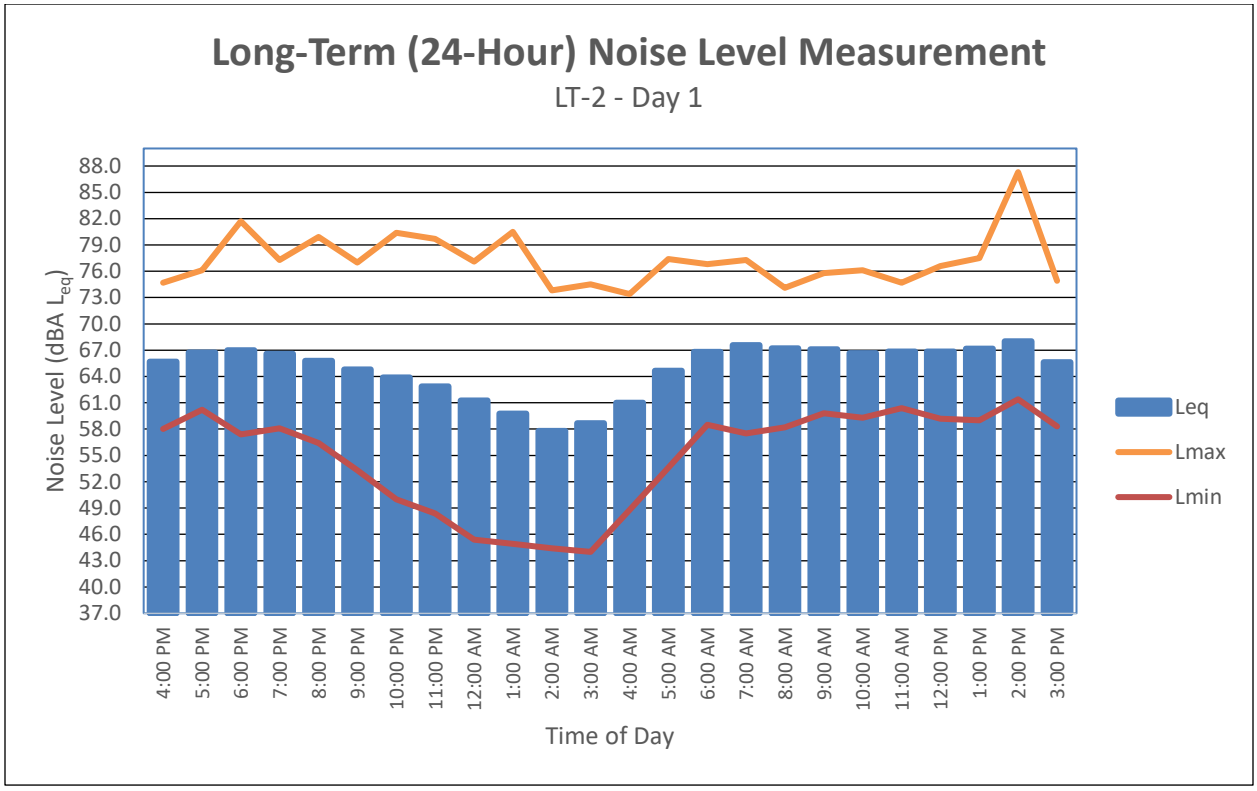
Comments:

Photo:

Long-Term (24-Hour) Noise Level Measurement Results at LT-2 – Day 1

Start Time	Date	Noise Level (dBA)		
		L_{eq}	L_{max}	L_{min}
4:00 PM	7/19/2022	65.7	74.7	58.0
5:00 PM	7/19/2022	66.7	76.1	60.2
6:00 PM	7/19/2022	67.0	81.7	57.4
7:00 PM	7/19/2022	66.6	77.3	58.1
8:00 PM	7/19/2022	65.8	79.9	56.4
9:00 PM	7/19/2022	64.8	77.0	53.3
10:00 PM	7/19/2022	63.9	80.4	50.0
11:00 PM	7/19/2022	62.9	79.7	48.4
12:00 AM	7/20/2022	61.3	77.1	45.4
1:00 AM	7/20/2022	59.8	80.5	44.9
2:00 AM	7/20/2022	57.8	73.8	44.4
3:00 AM	7/20/2022	58.7	74.5	44.0
4:00 AM	7/20/2022	61.0	73.4	48.8
5:00 AM	7/20/2022	64.7	77.4	53.6
6:00 AM	7/20/2022	66.8	76.8	58.5
7:00 AM	7/20/2022	67.6	77.3	57.5
8:00 AM	7/20/2022	67.2	74.1	58.2
9:00 AM	7/20/2022	67.1	75.8	59.8
10:00 AM	7/20/2022	66.6	76.1	59.3
11:00 AM	7/20/2022	66.8	74.7	60.4
12:00 PM	7/20/2022	66.9	76.6	59.2
1:00 PM	7/20/2022	67.2	77.5	59.0
2:00 PM	7/20/2022	68.0	87.3	61.4
3:00 PM	7/20/2022	65.6	74.9	58.3

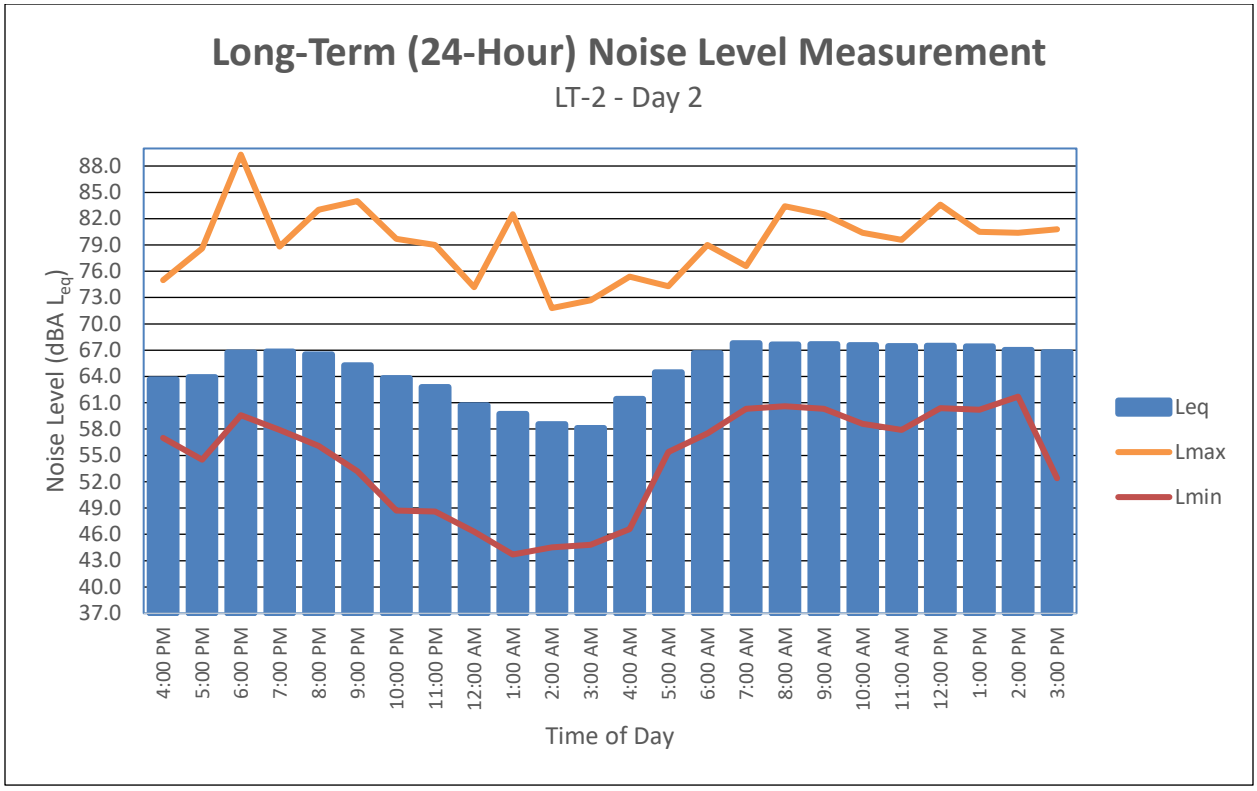
Source: Compiled by LSA Associates, Inc. (2022).
dBA = A-weighted decibel
L_{eq} = equivalent continuous sound level
L_{max} = maximum instantaneous noise level
L_{min} = minimum measured sound level


Long-Term (24-Hour) Noise Level Measurement
LT-2 - Day 1
Noise Level (dBA Leq)
88.0
85.0
82.0
79.0
76.0
73.0
70.0
67.0
64.0
61.0
58.0
55.0
52.0
49.0
46.0
43.0
40.0
37.0
4:00 PM
5:00 PM
6:00 PM
7:00 PM
8:00 PM
9:00 PM
10:00 PM
11:00 PM
12:00 AM
1:00 AM
2:00 AM
3:00 AM
4:00 AM
5:00 AM
6:00 AM
7:00 AM
8:00 AM
9:00 AM
10:00 AM
11:00 AM
12:00 PM
1:00 PM
2:00 PM
3:00 PM
Time of Day
Leq
Lmax
Lmin

Long-Term (24-Hour) Noise Level Measurement Results at LT-2 – Day 2

Start Time	Date	Noise Level (dBA)		
		L_{eq}	L_{max}	L_{min}
4:00 PM	7/19/2022	63.7	75.0	57.0
5:00 PM	7/19/2022	63.9	78.6	54.5
6:00 PM	7/19/2022	66.8	89.3	59.6
7:00 PM	7/19/2022	66.8	78.8	57.9
8:00 PM	7/19/2022	66.5	83.0	56.1
9:00 PM	7/19/2022	65.3	84.0	53.2
10:00 PM	7/19/2022	63.8	79.7	48.7
11:00 PM	7/19/2022	62.8	79.0	48.6
12:00 AM	7/20/2022	60.7	74.2	46.3
1:00 AM	7/20/2022	59.7	82.5	43.7
2:00 AM	7/20/2022	58.6	71.8	44.5
3:00 AM	7/20/2022	58.1	72.7	44.8
4:00 AM	7/20/2022	61.4	75.4	46.6
5:00 AM	7/20/2022	64.5	74.3	55.4
6:00 AM	7/20/2022	66.7	79.0	57.5
7:00 AM	7/20/2022	67.8	76.6	60.3
8:00 AM	7/20/2022	67.6	83.4	60.6
9:00 AM	7/20/2022	67.7	82.5	60.3
10:00 AM	7/20/2022	67.6	80.4	58.6
11:00 AM	7/20/2022	67.5	79.6	57.9
12:00 PM	7/20/2022	67.5	83.6	60.4
1:00 PM	7/20/2022	67.4	80.5	60.2
2:00 PM	7/20/2022	67.0	80.4	61.7
3:00 PM	7/20/2022	66.8	80.8	52.4

Source: Compiled by LSA Associates, Inc. (2022).
dBA = A-weighted decibel
L_{eq} = equivalent continuous sound level
L_{max} = maximum instantaneous noise level
L_{min} = minimum measured sound level


Long-Term (24-Hour) Noise Level Measurement
LT-2 - Day 2
Noise Level (dBA Leq)
88.0
85.0
82.0
79.0
76.0
73.0
70.0
67.0
64.0
61.0
58.0
55.0
52.0
49.0
46.0
43.0
40.0
37.0
4:00 PM
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6:00 AM
7:00 AM
8:00 AM
9:00 AM
10:00 AM
11:00 AM
12:00 PM
1:00 PM
2:00 PM
3:00 PM
Time of Day
Leq
Lmax
Lmin

ATTACHMENT C

CONSTRUCTION NOISE CALCULATIONS

Land Use	Direction	Noise Source	No. of Units	Reference Noise Level (dBA Leq)	Total Reference Noise Level (dBA Leq)	Reference Distance (ft)	Distance (ft)	Distance Attenuation (dBA)	Shielding (dBA)	Noise Level (dBA Leq)	Combined Noise Level (dBA Leq)
Residential	West	HVAC 1	9	66.6	76.1	5	75	24	5	48	48

RCNM User's Guide Construction Noise Prediction

Table 1. CA/T equipment noise emissions and acoustical usage factors database.

CA/T Noise Emission Reference Levels and Usage Factors

filename: EQUIPLST.xls

Equipment Description	Impact Device?	Acoustical Use Factor %	Spec 721.560 L_{max} @ 50 ft (dBA, slow)	Actual Measured Lmax @ 50 ft (dBA, slow)	No. of Actual Data Samples (count)
All Other Equipment > 5 HP	No	50	85	85	0
Auger Drill Rig	No	20	85	84	36
Backhoe	No	40	80	78	372
Bar Bender	No	20	80	80	0
Blasting	Yes	-- N/A --	94	94	0
Boring Jack Power Unit	No	50	80	83	1
Chain Saw	No	20	85	84	46
Clam Shovel (dropping)	Yes	20	93	87	4
Compactor (ground)	No	20	80	83	57
Compressor (air)	No	40	80	78	18
Concrete Batch Plant	No	15	83	83	0
Concrete Mixer Truck	No	40	85	79	40
Concrete Pump Truck	No	20	82	81	30
Concrete Saw	No	20	90	90	55
Crane	No	16	85	81	405
Dozer	No	40	85	82	55
Drill Rig Truck	No	20	84	79	22
Drum Mixer	No	50	80	80	1
Dump Truck	No	40	84	76	31
Excavator	No	40	85	81	170
Flat Bed Truck	No	40	84	74	4
Front End Loader	No	40	80	79	96
Generator	No	50	82	81	19
Generator (<25KVA, VMS signs)	No	50	70	73	74
Gradall	No	40	85	83	70
Grader	No	40	85	85	0
Grapple (on backhoe)	No	40	85	87	1
Horizontal Boring Hydr. Jack	No	25	80	82	6
Hydra Break Ram	Yes	10	90	90	0
Impact Pile Driver	Yes	20	95	101	11
Jackhammer	Yes	20	85	89	133
Man Lift	No	20	85	75	23
Mounted Impact Hammer (hoe ram)	Yes	20	90	90	212
Pavement Scarafier	No	20	85	90	2
Paver	No	50	85	77	9
Pickup Truck	No	40	55	75	1
Pneumatic Tools	No	50	85	85	90
Pumps	No	50	77	81	17
Refrigerator Unit	No	100	82	73	3
Rivit Buster/chipping gun	Yes	20	85	79	19
Rock Drill	No	20	85	81	3
Roller	No	20	85	80	16
Sand Blasting (Single Nozzle)	No	20	85	96	9
Scraper	No	40	85	84	12
Shears (on backhoe)	No	40	85	96	5
Slurry Plant	No	100	78	78	1
Slurry Trenching Machine	No	50	82	80	75
Soil Mix Drill Rig	No	50	80	80	0
Tractor	No	40	84	84	0
Vacuum Excavator (Vac-truck)	No	40	85	85	149
Vacuum Street Sweeper	No	10	80	82	19
Ventilation Fan	No	100	85	79	13
Vibrating Hopper	No	50	85	87	1
Vibratory Concrete Mixer	No	20	80	80	1
Vibratory Pile Driver	No	20	95	101	44
Warning Horn	No	5	85	83	12
Welder / Torch	No	40	73	74	5

Site Preparation

No.	Equipment Description	Actual Equipment Rated HP hp/hr	Number of Units	RCNM Construction Equipment	Reference (dBA) 50 ft Lmax	Quantity	Usage Factor[1]	Distance to Receptor (ft)	Ground Effect	Shielding (dBA)	Calculated (dBA)	
											Lmax	Leq
1	Excavator		0	Excavator	85	0	40	50	0	0	0.0	0.0
2	Concrete/Industrial Saws		0	Concrete Saw	90	0	20	50	0	0	0.0	0.0
3	Rubber Tired Dozers		1	Dozer	85	1	40	50	0	0	85.0	81.0
4	Tractors/Loaders/Backhoes		1	Front End Loader	80	1	40	50	0	0	80.0	76.0
5	Grader		0	Grader	85	0	40	50	0	0	0.0	0.0
6	Scraper		0	Scraper	85	0	40	50	0	0	0.0	0.0
7	Crane		0	Crane	85	0	16	50	0	0	0.0	0.0
8	Forklift		0	Man Lift	85	0	20	50	0	0	0.0	0.0
9	Generator Sets		0	Generator	82	0	50	50	0	0	0.0	0.0
10	Welders		0	Welder / Torch	73	0	40	50	0	0	0.0	0.0
11	Pavers		0	Paver	85	0	50	50	0	0	0.0	0.0
12	Rollers		0	Roller	85	0	20	50	0	0	0.0	0.0
13	Air Compressors		0	Compressor (air)	80	0	40	50	0	0	0.0	0.0
14	Water Truck		1	Pickup Truck	55	1	40	50	0	0	55.0	51.0
15	Pavement equipment		0	Pavement Scarafier	85	0	20	50	0	0	0.0	0.0
			3			3					**86.0**	**82.0**

Grading

No.	Equipment Description	Actual Equipment Rated HP hp/hr	Number of Units	RCNM Construction Equipment	Reference (dBA) 50 ft Lmax	Quantity	Usage Factor[1]	Distance to Receptor (ft)	Ground Effect	Shielding (dBA)	Calculated (dBA)	
											Lmax	Leq
1	Excavator		0	Excavator	85	0	40	50	0	0	0.0	0.0
2	Concrete/Industrial Saws		0	Concrete Saw	90	0	20	50	0	0	0.0	0.0
3	Rubber Tired Dozers		1	Dozer	85	1	40	50	0	0	85.0	81.0
4	Tractors/Loaders/Backhoes		0	Front End Loader	80	0	40	50	0	0	0.0	0.0
5	Grader		1	Grader	85	1	40	50	0	0	85.0	81.0
6	Scraper		0	Scraper	85	0	40	50	0	0	0.0	0.0
7	Crane		0	Crane	85	0	16	50	0	0	0.0	0.0
8	Forklift		0	Man Lift	85	0	20	50	0	0	0.0	0.0
9	Generator Sets		0	Generator	82	0	50	50	0	0	0.0	0.0
10	Tractor		0	Tractor	84	0	8.3	50	0	0	0.0	0.0
11	Pavers		0	Paver	85	0	50	50	0	0	0.0	0.0
12	Rollers		0	Roller	85	0	20	50	0	0	0.0	0.0
13	Air Compressors		0	Compressor (air)	80	0	40	50	0	0	0.0	0.0
14	Water Truck		1	Pickup Truck	55	1	8.3	50	0	0	55.0	44.2
15	Pavement equipment		0	Pavement Scarafier	85	0	20	50	0	0	0.0	0.0
			3			3					**88.0**	**84.0**

Building Construction

No.	Equipment Description	Actual Equipment Rated HP hp/hr	Number of Units	RCNM Construction Equipment	Reference (dBA) 50 ft Lmax	Quantity	Usage Factor[1]	Distance to Receptor (ft)	Ground Effect	Shielding (dBA)	Calculated (dBA)	
											Lmax	Leq
1	Excavator		0	Excavator	85	0	40	50	0	0	0.0	0.0
2	Concrete/Industrial Saws		0	Concrete Saw	90	0	20	50	0	0	0.0	0.0
3	Rubber Tired Dozers		0	Dozer	85	0	40	50	0	0	0.0	0.0
4	Tractors/Loaders/Backhoes		1	Front End Loader	80	1	40	50	0	0	80.0	76.0
5	Grader		0	Grader	85	0	40	50	0	0	0.0	0.0
6	Scraper		0	Scraper	85	0	40	50	0	0	0.0	0.0
7	Crane		1	Crane	85	1	16	50	0	0	85.0	77.0
8	Forklift		0	Man Lift	85	0	20	50	0	0	0.0	0.0
9	Generator Sets		0	Generator	82	0	50	50	0	0	0.0	0.0
10	Tractor		0	Tractor	84	0	8.3	50	0	0	0.0	0.0
11	Pavers		0	Paver	85	0	50	50	0	0	0.0	0.0
12	Rollers		0	Roller	85	0	20	50	0	0	0.0	0.0
13	Air Compressors		0	Compressor (air)	80	0	40	50	0	0	0.0	0.0
14	Water Truck		0	Pickup Truck	55	0	8.3	50	0	0	0.0	0.0
15	Pneumatic Tools		0	Pneumatic Tools	85	0	50	50	0	0	0.0	0.0
			2			2					**86.0**	**80.0**

Land Use	Direction	Reference Noise Level (dBA Lmax)	Reference Noise Level (dBA Leq)	Reference Distance (ft)	Distance (ft)	Distance Attenuation (dBA)	Shielding (dBA)	Noise Level (dBA Lmax)	Noise Level (dBA Leq)	Construction Noise Standard (dBA)	Exceed?
Recreation	Northeast	88	84	50	535	21	0	67	63	80	No
Residential	East	88	84	50	1,390	29	0	59	55	80	No

LandUse	Direction	ConstNoise
Residential	East	1394
Utility	North	91
Sports Park	Northeast	143
Vacant	East	90
Utility	East	88
Industrial	Southeast	0
Industrial	South	0
Vacant	South	0
Sports Park	Northeast	535

PhaseName	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Days per Phase	Trips Per Day	Trips Per Hour
Site Preparation	7	18	0	0	10	36	18
Grading	8	20	0	0	30	40	20
Building Construction	9	358	140	0	300	996	498
Paving	6	15	0	0	42	30	15
Architectural Coating	1	72	0	0	121	144	72

	Daily	Increase (dBA)	Peak Hour	Increase (dBA)
Mapes Road West of Trumble Road	100	10.4	10	17.1
+Construction	1,096		508	
Mapes Road East of Trumble Road	4,070	1.0	407	3.5
+Construction	5,066		905	
Trumble Road	3,060	1.2	306	4.2
+Construction	4,056		804	
CA-74	18,670	0.2	1,867	1.0
+Construction	19,666		2,365	

No.	Land Use	Direction	Construction Equipment	Reference Vibration Level (VdB)	Reference Vibration Level (PPV)	Distance (ft)	Attenuation (dBA)	Vibration Level (VdB)	Vibration Level (PPV)	Damage	Exceed?	Annoyance	Exceed?
1	Public Utility	North	Large Bulldozers	87	0.089	315	33	54	0.002	0.2	No	84	No
			Loaded Trucks	86	0.076	315	33	53	0.002	0.2	No	84	No
2	Sports Complex	Northeast	Large Bulldozers	87	0.089	910	47	40	0.000	0.2	No	78	No
			Loaded Trucks	86	0.076	910	47	39	0.000	0.2	No	78	No
3	Public Utility	East	Large Bulldozers	87	0.089	245	30	57	0.003	0.2	No	84	No
			Loaded Trucks	86	0.076	245	30	56	0.002	0.2	No	84	No
4	Office	South	Large Bulldozers	87	0.089	60	11	76	0.024	0.2	No	84	No
			Loaded Trucks	86	0.076	60	11	75	0.020	0.2	No	84	No

Id	LandUse	Direction	NEAR_DIST
1	Public Utility	North	316.9
2	Sports Complex	Northeast	910.0
3	Public Utility	East	245.5
4	Business Park	South	59.6
1B	*Don't use -EMWD 2*	*North*	*444.6*
3B	*Don't use - SoCal Gas 2*	*East*	*441.9*

For Report

Airport Name	Direction	Distance (miles)	Zone
Perris Valley Airport	West	1.6	Outside the 55 dBA CNEL Zone
French Valley Airport	South	12.5	Outside the 55 dBA CNEL Zone
Hemet-Ryan Airport	East	9.33	Outside the 55 dBA CNEL Zone
March Air Reserve Base	Northwest	8.2	Outside the 60 dBA CNEL Zone

Project Number: BAV2101

(enter current project number after updating aircraft analysis so we know it's been updated for this project)

Project Coordinates: 33.75655988004833, -117.18657418892019

(copy from Google (format= Lat, Long)

Lat:	33.75655988
Long:	-117.1865742

Closest Airports (Auto-calculates based on coordinates)

#	Name	Direction	Distance (miles)
1	Perris Valley	West	1.86
2	Hemet-Ryan Airport	East	9.53
3	March Air Reserve Base	Northwest	10.02
4	French Valley Airport	South	12.84
5	Riverside Municipal Airport	Northwest	19.98
6	Flabob Airport	Northwest	20.53
7	Banning Municipal Airport	Northeast	22.43
8	Redlands Municipal Airport	North	22.82
9	San Bernardino International Airport	North	23.55
10	San Bernardino County Sheriff's Dept Helipad	North	24.44

Airport Lookup Table (coordinates are to the center of the runway(s))

Airport Name	Direction from Project	Distance from Project (Miles)	Alt Distance (for larger Airports)	County	Website	Coordinates (Lat, Long)	Lat	Long	Direction Code (Bearing/45)	Notes
Riverside County RCALUC					RCALUC					
Bannine Municipal Airpo	Northeast	22.43		Riverside	RCALUC	33.92264925984016, -116.8508815	33.9226493	-116.8508856	-1	
Bermuda Dunes Airport	East	52.34		Riverside	RCALUC	33.74870986275238, -116.2755662	33.7487098	-116.2756662	-2	
Blythe Airport	South	142.30		Riverside	RCALUC	33.616668985127444, -114.717149	33.6166699	-114.717149	-4	
Chino Airport	Northwest	29.90		San Bernardino	RCALUC	33.97495298959223, -117.636399	33.974953	-117.6363991	1	
Chiriaco Summit Airport	Southeast	85.06		Riverside	RCALUC	33.664785471180014, -115.71073	33.6647854	-115.7107303	-3	
Corona Municipal Airpor	West	25.80		Riverside	RCALUC	33.897679179188041, -117.602640	33.8976792	-117.6026404	2	
Desert Center Airport	Southeast	106.96		Riverside	RCALUC	33.747968316983845, -115.32470	33.7479683	-115.3247413	-3	
Jacqueline Cochran Regi	Southeast	59.89		Riverside	RCALUC	33.627538275314064, -116.15648	33.6275384	-116.1564813	-3	
Flabob Airport	Northwest	20.53		Riverside	RCALUC	33.988806851144851, -117.409788	33.9880648	-117.4097881	1	
French Valley Airport	South	12.84		Riverside	RCALUC	33.576923, -117.129326	33.576923	-117.129326	-4	
Hemet-Ryan Airport	East	9.53		Riverside	RCALUC	33.734003956875045, -117.02005	33.7340039	-117.0200403	-2	
March Air Reserve Base	Northwest	10.02		Riverside	RCALUC	33.88763172410471, -117.263133	33.8876317	-117.2631333	1	
Palm Springs Internation	East	39.29		Riverside	RCALUC	33.83017423830605, -116.50512	33.8301742	-116.5051205	-2	
Perris Valley	West	1.86		Riverside	RCALUC	33.7422004314824O5, -117.2183	33.7422004	-117.2183013	2	
Riverside Municipal Airp	Northwest	19.98		Riverside	RCALUC	33.952158972048Z, -117.44304	33.9521516	-117.4404421	1	
Orange County										
John Wayne Airport	Southwest	39.64		Orange		33.67691142907509, -117.869318	33.6769114	-117.8693188	3	
Los Alamitos Army Airfie	West	49.65		Orange		33.78085233277147, -118.059035	33.7808523	-118.0590268	2	
	N/A	No Airport Coords					N/A	N/A	N/A	
	N/A	No Airport Coords					N/A	N/A	N/A	
	N/A	No Airport Coords					N/A	N/A	N/A	
Los Angeles										
Long Beach Airport	West	55.50		LA		33.816897269913525, -118.15025	33.8168972	-118.1502596	2	
LAX	**West**	**69.77**		LA						
LAX (NW)	West		72.65	LA		33.949138772207765, -118.43118	33.9491377	-118.4311885	2	
LAX (NE)	West		71.04	LA		33.952081677608l, -118.4039755	33.9520816	-118.4039753	2	
LAX (SW)	West		71.78	LA		33.933650747119096, -118.43404	33.9336507	-118.4340429	2	
LAX (SE)	West		69.77	LA		33.937392646270777, -118.382714	33.9373926	-118.3827145	2	
	N/A	No Airport Coords					N/A	N/A	N/A	
San Bernardino										
Ontario International Air	Northwest	31.50		San Bernardino		34.05527616322202, -117.600385	34.0552761	-117.6003858	1	
San Bernardino Internati	North	23.55		San Bernardino		34.094882015750756, -117.23666	34.0948820	-117.2366071	0	
							N/A	N/A	N/A	
SB County Local Airports					SB County ALUCP					
Twentynine Palms Airpo	East	75.77		San Bernardino	Twentynine Palms Airport	34.130629466919901, -115.94408	34.1306294	-115.9440852	-2	
Town of Apple Valley Air	North	56.88		San Bernardino	Town of Apple Valley Airport	34.5790031330301, -117.185466	34.5790031	-117.1854653	0	
Baker Airport	Northeast	123.01		San Bernardino	Baker Airport	35.2663363735575l, -116.08346	35.2663637	-116.0834621	-1	
Barstow-Daggett Airport	Northeast	79.26		San Bernardino	Barstow-Daggett Airport	34.854681083827622, -116.78525	34.8546808	-116.7852539	-1	
Big Bear City Airport	Northeast	39.84		San Bernardino	Big Bear City Airport	34.263822837609l, -116.8501453	34.2638284	-116.8501452	-1	
Cable Airport	Northwest	37.77		San Bernardino	Cable Airport	34.11164613527216, -117.687462	34.1116461	-117.6874632	1	
Chino Airport	Northwest	29.90		San Bernardino	Chino Airport	33.97495298959223, -117.636399	33.974953	-117.6363991	1	
Hesperia Airport	North	43.51		San Bernardino	Hesperia Airport	34.377063382910684, -117.31585	34.3770633	-117.3158229	0	
Roy Williams Airport (for	East	60.21		San Bernardino	Hi-Desert Airport	34.154602899925133, -116.25307	34.1546029	-116.2518756	-2	
Needles Municipal Airpo	Southeast	162.11		San Bernardino	Needles Municipal Airport	34.767654173920985, -114.62486	34.7676543	-114.6249579	-3	
Redlands Municipal Airp	North	22.82		San Bernardino	Redlands Municipal Airport	34.085168485929866, -117.44814	34.0851684	-117.4481477	0	Permanently closed
Rialto Municipal Airport	*N/A*	*No Airport Coords*		*San Bernardino*	***Permanently closed***		N/A	N/A	N/A	
Southern California Logis	North	59.08		San Bernardino	Southern California Logistics Airport	34.596247527728626, -117.28287	34.5962475	-117.2809756	0	Private use, dirt runways
Sun Hill Ranch Airport	North	71.58		San Bernardino	Sun Hill Ranch Airport	34.759696837123l, -117.488201	34.7596969	-117.4882011	0	
Yucca Valley Airport	East	51.60		San Bernardino	Yucca Valley Airport	34.129891436403936, -116.60695	34.1289914	-116.6065574	-2	
HELIPADS	N/A	No Airport Coords					N/A	N/A	N/A	
San Bernardino County S	North	24.44		San Bernardino		34.103100981127O1, -117.27388	34.1031009	-117.2738823	0	
San Bernardino Commun	North	26.99		San Bernardino		34.130724048185584, -117.32165	34.1307240	-117.3216455	0	
Hi-Desert Memorial Hosp	East	58.28		San Bernardino		34.131303823881l6, -116.2757856	34.1313032	-116.2757856	-2	
	N/A	No Airport Coords					N/A	N/A	N/A

HVAC Noise Calculations

No.	HVAC Unit	Area	Manufacturer	Model No.	Sound Rating Number (SRN *or* *SWL/LWA*) (dBA)	Noise Level at 50 ft (dBA L_{eq})
1	RA1460	Residential Roof	Rheem	RA1460AD1NB	74.6	43.0
2	RA1460	Residential Roof	Rheem	RA1448AJ1NB	76.0	44.4
3					74.6	43.0
4					74.6	43.0
5					74.6	43.0
6					74.6	43.0
7					74.6	43.0
8					74.6	43.0
9					74.6	43.0
10					74.6	43.0
11					74.6	43.0
12					74.6	43.0
					Total:	**53.9**

Daytime

Land Use	Direction	Noise Source	Reference Noise Level (dBA Lmax)	Reference Noise Level (dBA Leq)	Reference Distance (ft)	Distance (ft)	Distance Attenuation (dBA)	Shielding (dBA)	Noise Level (dBA Lmax)	Noise Level (dBA Leq)	Combined Noise Level (dBA Lmax)	Combined Noise Level (dBA Leq)	City of Perris Standards Day	City of Perris Standards Exceed?	City of Menifee Standards Day	City of Menifee Standards Exceed?
Sports Complex	Northeast	Truck Loading	75.0	75.0	50	965	25.7	10	39.3	39.3	51.5	49.3	80	No	65	No
		Auto Parking	70.0	64.0	50	590	21.4	0	48.6	42.6						
		Truck Parking	70.0	64.0	50	1,380	28.8	10	31.2	25.2						
		HVAC								47.6						
Residential	East	Truck Loading	75.0	75.0	50	1,615	30.2	3	41.8	41.8	45.3	43.0	80	No	65	No
		Auto Parking	70.0	64.0	50	1,425	29.1	0	40.9	34.9						
		Truck Parking	70.0	64.0	50	1,925	31.7	0	38.3	32.3						
		HVAC								0.0						

Nighttime

Land Use	Direction	Noise Source	Reference Noise Level (dBA Lmax)	Reference Noise Level (dBA Leq)	Reference Distance (ft)	Distance (ft)	Distance Attenuation (dBA)	Shielding (dBA)	Noise Level (dBA Lmax)	Noise Level (dBA Leq)	Combined Noise Level (dBA Lmax)	Combined Noise Level (dBA Leq)				
Sports Complex	Northeast	Truck Loading	75.0	75.0	50	965	25.7	10	39.3	39.3	51.5	48.6	60	No	45	Yes
		Auto Parking	70.0	59.2	50	590	21.4	0	48.6	37.8						
		Truck Parking	70.0	62.2	50	1,380	28.8	10	31.2	23.4						
		HVAC								47.6						
Residential	East	Truck Loading	75.0	75.0	50	1,615	30.2	3	41.8	41.8	45.3	42.4	60	No	45	No
		Auto Parking	70.0	59.2	50	1,425	29.1	0	40.9	30.1						
		Truck Parking	70.0	62.2	50	1,925	31.7	0	38.3	30.5						
		HVAC								0.0						

LandUse	Direction	Loading	Parking	Truck_Park
Sports Park	Northeast	967.0	591.0	1382.7
Residential	East	1619.0	1426.0	1928.4
Utility	North	504.0	157.0	655.4
Sports Park	Northeast	605.0	202.0	1014.2
Vacant	East	341.0	123.0	746.4
Utility	East	313.0	121.0	629.1
Industrial	Southeast	150.0	77.0	0.6
Industrial	South	471.0	557.0	0.0
Vacant	South	469.0	634.0	0.0

75	50	1378	28.8	46.19441574	
70	50	1378	28.8	41.19441574	

Trucks Delivery/Unloading per Hour

Trucks	Minutes	Total
63	5	315
29	5	145

Cumulative of 10 minutes in one hour

Daytime	60	75	75
Nighttime	60	75	75

Auto Parking per hour

Parking	Minutes	Total
44	0.25	11
19	0.25	4.75

Cumulative of 15 minutes in one hour

Daytime	15	70	64.0
Nighttime	5	70	59.2

Truck Parking per hour

Parking	Minutes	Total
63	0.25	15.75
29	0.25	7.25

Cumulative of 15 minutes in one hour

Daytime	15	70	64.0
Nighttime	10	70	62.2

	AM Peak	PM Peak	Daily	Remaining	Off Peak
Auto	41	44	495	410	18.6
Truck	18	63	719	638	29

1	75	31622776.6		70	10000000		70	10000000
2	75	31622776.6		70	10000000		70	10000000
3	75	31622776.6		70	10000000		70	10000000
4	75	31622776.6		70	10000000		70	10000000
5	75	31622776.6		70	10000000		70	10000000
6	0	1		70	10000000		70	10000000
7	0	1		70	10000000		70	10000000
8	0	1		70	10000000		70	10000000
9	0	1		70	10000000		70	10000000
10	0	1		70	10000000		70	10000000
11	0	1		70	10000000		70	10000000
12	0	1		70	10000000		70	10000000
13	0	1		70	10000000		70	10000000
14	0	1		70	10000000		70	10000000
15	0	1		70	10000000		70	10000000
16	0	1		0	1		0	1
17	0	1		0	1		0	1
18	0	1		0	1		0	1
19	0	1		0	1		0	1
20	0	1		0	1		0	1
21	0	1		0	1		0	1
22	0	1		0	1		0	1
23	0	1		0	1		0	1
24	0	1		0	1		0	1
25	0	1		0	1		0	1
26	0	1		0	1		0	1
27	0	1		0	1		0	1
28	0	1		0	1		0	1
29	0	1		0	1		0	1
30	0	1		0	1		0	1
31	0	1		0	1		0	1
32	0	1		0	1		0	1
33	0	1		0	1		0	1
34	0	1		0	1		0	1
35	0	1		0	1		0	1
36	0	1		0	1		0	1
37	0	1		0	1		0	1
38	0	1		0	1		0	1
39	0	1		0	1		0	1
40	0	1		0	1		0	1
41	0	1		0	1		0	1
42	0	1		0	1		0	1
43	0	1		0	1		0	1
44	0	1		0	1		0	1
45	0	1		0	1		0	1
46	0	1		0	1		0	1
47	0	1		0	1		0	1
48	0	1		0	1		0	1
49	0	1		0	1		0	1
50	0	1		0	1		0	1
51	0	1		0	1		0	1
52	0	1		0	1		0	1
53	0	1		0	1		0	1
54	0	1		0	1		0	1
55	0	1		0	1		0	1
56	0	1		0	1		0	1
57	0	1		0	1		0	1
58	0	1		0	1		0	1
59	0	1		0	1		0	1
60	0	1		0	1		0	1
		64.2			64.0			64.0

Barrier insertion loss For Flat Ground

Receiver -

Enter variables here:

Source Height H_s(ft)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Receiver Height H_R(ft)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Barrier Height H_B(ft)	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Distance Source to barrier (ft)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Distance Receiver to Barrier (ft)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Soft Ground = 1; Hard Ground = 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Calculations

A	20.099751	20.223748	20.39607805	20.615528	20.880613	21.18962	21.540659	21.931712	22.36068	22.825424	23.323808	23.853721	24.413111	25	25.612497	26.248809
B	20	20.024984	20.09975124	20.223748	20.396078	20.615528	20.880613	21.18962	21.540659	21.931712	22.36068	22.825424	23.323808	23.853721	24.413111	25
C	40.049969	40.049969	40.04996879	40.049969	40.049969	40.049969	40.049969	40.049969	40.049969	40.049969	40.049969	40.049969	40.049969	40.049969	40.049969	40.049969
P	0.0497825	0.198764	0.445860508	0.7893078	1.2267223	1.7551794	2.3713035	3.0713635	3.8513702	4.7071678	5.6345186	6.6291765	7.68695	8.8037521	9.9756394	11.198841
Ground type H_{eff} (with barrier)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Ground type H_{eff} (no barrier)	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
H_{eff} (with barrier)	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
H_{eff} no barrier	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
G_B	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
G_{NB}	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
$A_{barrier}$	2.3532852	6.3025336	9.530455917	11.972221	13.881827	15.436818	16.743365	17.866789	18.849628	19.721071	20.502043	21.20807	21.851015	22.440152	22.982882	23.485205

$IL_{barrier}$	**2.3**	**6.2**	**9.4**	**11.9**	**13.8**	**14.9**	**14.9**	**14.9**	**14.9**	**14.9**	**14.9**	**14.9**	**14.9**	**14.9**	**14.9**	**14.9**
$IL_{barrier}$	**2.3**	**6.2**	**9.4**	**11.9**	**13.8**	**14.9**	**14.9**	**14.9**	**14.9**	**14.9**	**14.9**	**14.9**	**14.9**	**14.9**	**14.9**	**14.9**

Barrier Height (ft)	**IL (dBA)**	dBA
5	2	66
6	6	62
7	9	59
8	12	56
9	14	54
10	**15**	53
11	15	53
12	15	53
13	**15**	53
14	15	53
15	15	53
16	15	53
17	15	53
18	15	53
19	15	53
20	15	53

Barrier insertion loss For Flat Ground

Receiver -

Enter variables here:

Source Height H_s(ft)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Receiver Height H_R(ft)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Barrier Height H_B(ft)	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Distance Source to barrier (ft)	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
Distance Receiver to Barrier (ft)	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
Soft Ground = 1; Hard Ground = 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Calculations

A	180	180.00278	180.0111108	180.025	180.04444	180.06943	180.09997	180.13606	180.17769	180.22486	180.27756	180.3358	180.39956	180.46883	180.54362	180.62392
B	150	150.00333	150.0133327	150.03	150.05332	150.08331	150.11995	150.16324	150.21318	150.26976	150.33296	150.40279	150.47923	150.56228	150.65192	150.74813
C	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330
P	0	0.0061111	0.024443509	0.0549953	0.0977628	0.1527413	0.2199243	0.2993042	0.3908719	0.494617	0.6105276	0.7385904	0.878791	1.0311133	1.1955402	1.372053
Ground type H_{eff} (with barrier)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Ground type H_{eff} (no barrier)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
H_{eff} (with barrier)	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
H_{eff} no barrier	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
G_B	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
G_{NB}	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
$A_{barrier}$	#DIV/0!	0.3490719	1.273834334	2.5524507	3.9646016	5.3651155	6.6811582	7.8865765	8.9795682	9.9689263	10.866855	11.68565	12.436388	13.128562	13.770126	14.367687

$IL_{barrier}$	**#DIV/0!**	**0.3**	**1.3**	**2.6**	**4.0**	**5.4**	**6.7**	**7.9**	**9.0**	**10.0**	**10.9**	**11.7**	**12.4**	**13.1**	**13.8**	**14.4**
$IL_{barrier}$	**#DIV/0!**	**0.3**	**1.3**	**2.6**	**4.0**	**5.4**	**6.7**	**7.9**	**9.0**	**10.0**	**10.9**	**11.7**	**12.4**	**13.1**	**13.8**	**14.4**

Barrier Height (ft)	**IL (dBA)**	dBA
5	#DIV/0!	#DIV/0!
6	0	68
7	1	67
8	3	65
9	4	64
10	**5**	63
11	7	61
12	8	60
13	**9**	59
14	10	58
15	11	57
16	12	56
17	12	56
18	13	55
19	14	54
20	14	54

No.	Land Use	Direction	Distance from Project Construction Boundary to Off-Site Building (ft)	Distance from Project Construction Boundary to Off-Site Property Line (ft)
1	Public Utility	North	315	NA
2	Sports Complex	Northeast	910	535
3	Public Utility	East	245	NA
4	Residential	East	NA	1,390
5	Office	South	60	NA

CARLSBAD
CLOVIS
IRVINE
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

MEMORANDUM

DATE: September 19, 2024

TO: Jeff Stone, Diamond Construction

FROM: Kat Hughes, Senior Environmental Planner, Mike Trueblood, Senior Biologist, Zachary Carpenter, Assistant Biologist

SUBJECT: Biological Resources Constraints Evaluation for the Oak Hill Road Project, Lafayette, Contra Costa County, California

This memorandum presents the results of a biological constraints analysis for the Oak Hill Road Apartments Project (project) in Lafayette, Contra Costa County, California. This memorandum supports the City of Lafayette's (City) environmental review requirements under the California Environmental Quality Act (CEQA) by describing site habitat conditions, identifying any special-status biological resources present on the project site, determining what impact the proposed project may have on these resources, and providing recommendations, as necessary, to address the requirements of CEQA.

PROJECT LOCATION AND DESCRIPTION

The 1.21-acre project site is at 1001 Oak Hill Road in Lafayette's downtown core, approximately 300 feet north of Mount Diablo Boulevard and 1,000 feet from the Bay Area Rapid Transit District (BART) Lafayette Station (Assessor Parcel Numbers 243-030-033-1, 243-030-038-0, 243-030-020-8, and 243-030-041-4). The site contains one three-story commercial/retail building (1009 Oak Hill Road), one single-story commercial/retail building (1003 Oak Hill Road), one two-story commercial/retail building (1007 Oak Hill Road), and asphalt parking lots surrounding the buildings. Landscaping is present around and between the buildings and along Oak Hill Road Frontage. The site's northern boundary is adjacent to East Bay Municipal Utility District's (EBMUD) Mokelumne Aqueduct. State Route 24 and the Oak Hill Road offramp are to the north of the EBMUD aqueduct. To the west are an apartment building and commercial developments; to the south and east are commercial developments and the Oak Hill Road/Mount Diablo Boulevard intersection (Figures 1 and 2, attached).

The project would require demolition and removal of all three existing buildings and 18 trees.

METHODS

LSA conducted a site visit, and reviewed aerial imagery (Google Earth) as well as lists of special-status plant and wildlife species potentially occurring on or in the vicinity of the project site. Sources

queried to compile the list include the California Natural Diversity Database (CNDDB) administered by the California Department of Fish and Wildlife (CDFW), the California Native Plant Society's Rare Plant Inventory, and the United States Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) system for the *Walnut Creek* and *Las Trampas Ridge* United States Geological Survey 7.5-minute quadrangles (see Attachment B). The City's Municipal Code and General Plan were also reviewed for any relevant policies pertaining to biological resources.

RESULTS

As described above, the site has previously been developed and contains three buildings, parking areas, and concrete pathways and stairs connecting the buildings. Landscaping is present around the buildings. The majority of this landscaping consists of ornamental trees, shrubs and groundcovers. Several native trees are present in the landscaped areas, including two specimen valley oaks (*Quercus lobata*) with estimated 40-inch trunk diameters and smaller coast live oaks (*Quercus agrifolia*). The large redwood tree on the northwest portion of the project site was planted as part of site landscaping and is not native to the site.

The proposed project would result in the removal of 18 trees.[1] Because the project site is within a commercial zoning district, all 18 of these trees meet the criteria of protected trees under the City's Tree Protection Ordinance, as specified under the City's Municipal Code (Section 6-1702(Q.8.).[2]

Wildlife likely to be present are common species adapted to urban areas including mourning dove, Anna's hummingbird, California scrub jay, house finch, California towhee, opossum, and raccoon.

SPECIAL-STATUS SPECIES

There are no aquatic features on the property. Due to the existing development on the project site, there is no suitable habitat on or in the vicinity of the site for any of the special-status species that occur in the central Lafayette area (see species lists in Attachment B).

Existing project area landscaping, trees, and existing structures provide suitable nesting habitat for birds protected under Sections 3503, 3503.5, and 3513 of the California Fish and Game Code (CFGC) and the federal Migratory Bird Treaty Act (MBTA). If tree removal, clearing, and/or grading take place during the nesting season (February 1 through August 31), direct impacts to nesting birds protected under the CFGC and MBTA could occur. The potential for indirect impacts (e.g., nest abandonment due to construction-related disturbance) is expected to be low due to the urban setting and existing levels of disturbance and ambient noise from automobile and pedestrian traffic. Bird species most likely to nest in the vicinity of project activities are tolerant of disturbance and will continue nest attempts if adequate buffers are provided.

The 18 trees to be removed require a Category II permit as specified under the City's Municipal Code (Section 6-1707). As stated above, these 18 trees meet the "protected tree" standards under the

[1] Bob Peralta Arbor Consulting. 2022. Tree Evaluation Arborist Report.
[2] City of Lafayette Municipal Code Section 6-1702(Q.8.)

City's Tree Protection Ordinance. The 18 protected trees consist of 4 evergreen pears, 3 liquidambar, 5 valley oaks, 3 coast live oaks, 1 southern live oak, 1 podocarpus, and 1 blue spruce.

RECOMMENDATIONS

The following regulatory compliance measures are recommended to address project consistency with CFGC Sections 3503, 3503.5, and 3513 and the MBTA (nesting birds):

1. If work begins between February 1 and August 31, no more than 14 days prior to the start of construction, a qualified biologist will conduct a nesting bird preconstruction survey on the project site and 100 feet immediately adjacent to the project site.

2. If no nesting activity is observed, work may proceed as planned. If any active bird nests are discovered within the project site or within 100 feet, a qualified biologist will evaluate the potential for work activities to disturb nesting activities and establish protective buffers, if necessary, based on this evaluation.

3. Removal of active nests will be avoided until it is determined by a qualified biologist that nesting is complete and the young have fledged, or that the nest has failed. If work is undertaken while a nest is active, a qualified biologist will be on-site during construction activities to monitor nesting activity. The biologist will have the authority to stop work if it is determined the project is adversely affecting nesting activities.

The following regulatory compliance measure is recommended to address project consistency with the City's Tree Protection Ordinance (Section 6-1707):

1. A Category II permit under Sections 6-1707 of the City's Tree Protection Ordinance will be obtained by the project applicant prior to the removal of a protected tree.

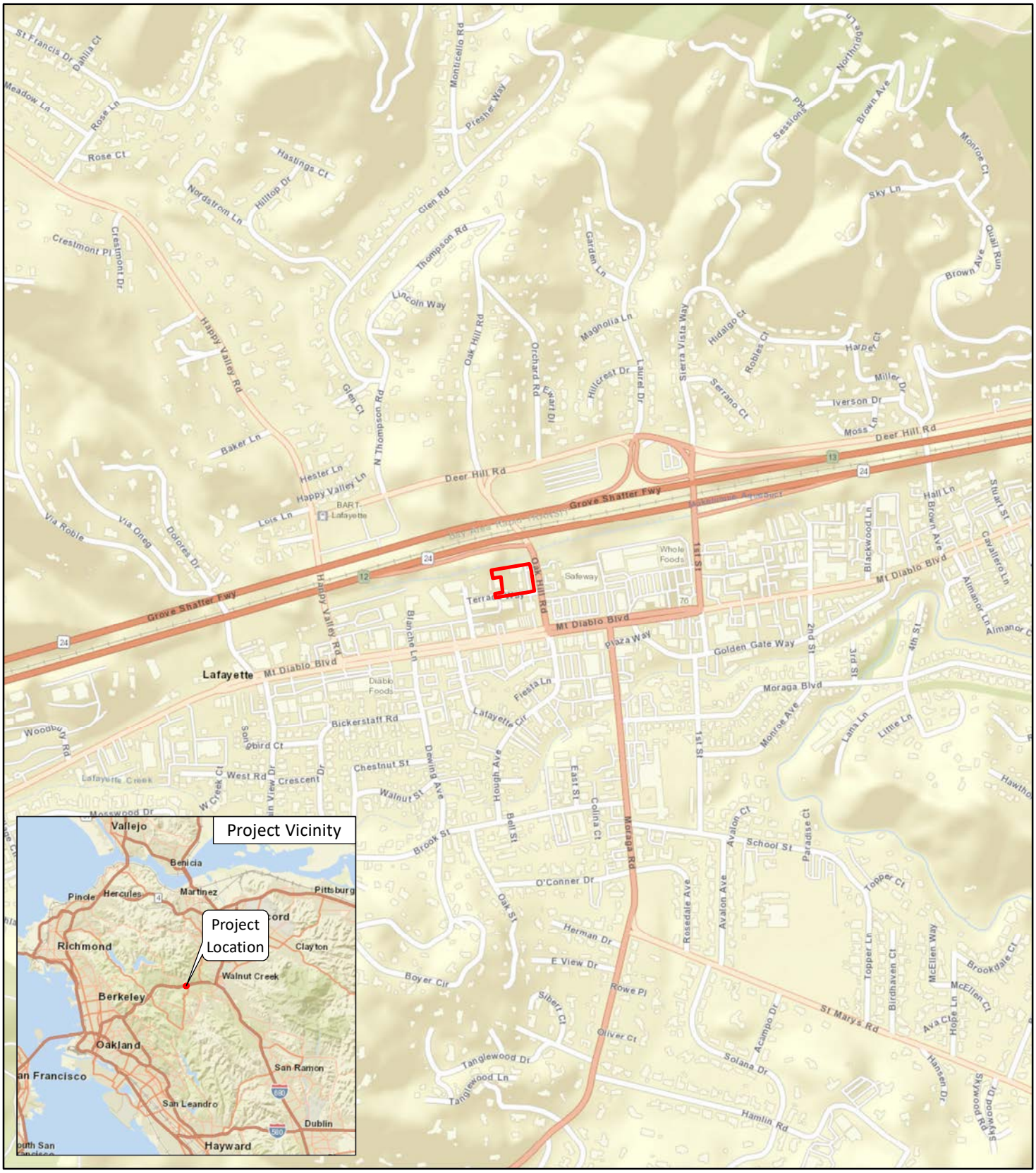
2. For each six-inches or its fraction of the diameter of the tree to be removed, two 15-gallon trees shall be planted. Each replacement tree shall be:

    a. The same genus and species as the removed or destroyed tree; or

    b. An alternative species approved by the Director.

3. If the property associated with the development application cannot accommodate a replacement tree, as a condition of the permit, the applicant shall make an in-lieu payment of an amount set by resolution by the City Council for each 15-gallon replacement tree. The in-lieu payment shall be used by the city for a tree education and planting program.

Attachments: Attachment A: Figures
Attachment B: CNDDB, CNPS, and USFWS IPaC Special Status Species Database Queries



LSA

LEGEND

Project Area

FIGURE 1

N

0 500 1000

FEET

Oak Hill Project

Lafayette, Contra Costa County, California

Regional Location

SOURCE: Esri World Street Map (2022)

I:\DMD2201\GIS\MXD\RegionalLocation.mxd (7/21/2022)

LSA

LEGEND

Project Area

FIGURE 2

N

0 50 100

FEET

SOURCE: Google (2021)

I:\DMD2201\GIS\MXD\ProjectArea.mxd (7/21/2022)

Oak Hill Project
Lafayette, Contra Costa County, California
Project Vicinity

Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database

Query Criteria: Quad IS (Walnut Creek (3712281) OR Las Trampas Ridge (3712271))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Actinemys marmorata northwestern pond turtle	ARAAD02031	Proposed Threatened	None	G2	SNR	SSC
Ambystoma californiense pop. 1 California tiger salamander - central California DPS	AAAAA01181	Threatened	Threatened	G2G3T3	S3	WL
Amsinckia lunaris bent-flowered fiddleneck	PDBOR01070	None	None	G3	S3	1B.2
Anniella pulchra Northern California legless lizard	ARACC01020	None	None	G3	S2S3	SSC
Anomobryum julaceum slender silver moss	NBMUS80010	None	None	G5	S2	4.2
Antrozous pallidus pallid bat	AMACC10010	None	None	G4	S3	SSC
Athene cunicularia burrowing owl	ABNSB10010	None	None	G4	S2	SSC
Blepharizonia plumosa big tarplant	PDAST1C011	None	None	G1G2	S1S2	1B.1
Bombus caliginosus obscure bumble bee	IIHYM24380	None	None	G2G3	S1S2	
Bombus occidentalis western bumble bee	IIHYM24252	None	Candidate Endangered	G3	S1	
Calochortus pulchellus Mt. Diablo fairy-lantern	PMLIL0D160	None	None	G2	S2	1B.2
Centromadia parryi ssp. congdonii Congdon's tarplant	PDAST4R0P1	None	None	G3T2	S2	1B.1
Corynorhinus townsendii Townsend's big-eared bat	AMACC08010	None	None	G4	S2	SSC
Efferia antiochi Antioch efferian robberfly	IIDIP07010	None	None	G1G2	S1S2	
Eryngium jepsonii Jepson's coyote-thistle	PDAPI0Z130	None	None	G2	S2	1B.2
Extriplex joaquinana San Joaquin spearscale	PDCHE041F3	None	None	G2	S2	1B.2
Fritillaria liliacea fragrant fritillary	PMLIL0V0C0	None	None	G2	S2	1B.2
Helianthella castanea Diablo helianthella	PDAST4M020	None	None	G2	S2	1B.2
Hoita strobilina Loma Prieta hoita	PDFAB5Z030	None	None	G2?	S2?	1B.1
Isocoma arguta Carquinez goldenbush	PDAST57050	None	None	G1	S1	1B.1

Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Lasiurus cinereus hoary bat	AMACC05032	None	None	G3G4	S4	
Lasthenia conjugens Contra Costa goldfields	PDAST5L040	Endangered	None	G1	S1	1B.1
Malacothamnus hallii Hall's bushmallow	PDMAL0Q0F0	None	None	G2	S2	1B.2
Masticophis lateralis euryxanthus Alameda whipsnake	ARADB21031	Threatened	Threatened	G4T2	S2	
Monolopia gracilens woodland woollythreads	PDAST6G010	None	None	G3	S3	1B.2
Neotoma fuscipes annectens San Francisco dusky-footed woodrat	AMAFF08082	None	None	G5T2T3	S2S3	SSC
Oenothera deltoides ssp. howellii Antioch Dunes evening-primrose	PDONA0C0B4	Endangered	Endangered	G5T1	S1	1B.1
Rana boylii pop. 4 foothill yellow-legged frog - central coast DPS	AAABH01054	Threatened	Endangered	G3T2	S2	
Rana draytonii California red-legged frog	AAABH01022	Threatened	None	G2G3	S2S3	SSC
Streptanthus albidus ssp. peramoenus most beautiful jewelflower	PDBRA2G012	None	None	G2T2	S2	1B.2
Stuckenia filiformis ssp. alpina northern slender pondweed	PMPOT03091	None	None	G5T5	S2S3	2B.2
Viburnum ellipticum oval-leaved viburnum	PDCPR07080	None	None	G4G5	S3	2B.3

Record Count: 32

CALIFORNIA NATIVE PLANT SOCIETY

CNPS Rare Plant Inventory

Search Results

24 matches found. Click on scientific name for details

Search Criteria: Quad is one of [**3712281:3712271**]

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	BLOOMING PERIOD	FED LIST	STATE LIST	GLOBAL RANK	STATE RANK	CA RARE PLANT RANK	CA ENDEMIC	DATE ADDED	PHOTO
Amsinckia lunaris	bent-flowered fiddleneck	Boraginaceae	annual herb	Mar-Jun	None	None	G3	S3	1B.2	Yes	1974-01-01	© 2011 Neal Kramer
Anomobryum julaceum	slender silver moss	Bryaceae	moss		None	None	G5	S2	4.2		2001-01-01	© 2013 Scot Loring
Blepharizonia plumosa	big tarplant	Asteraceae	annual herb	Jul-Oct	None	None	G1G2	S1S2	1B.1	Yes	1994-01-01	No Photo Available
Calochortus pulchellus	Mt. Diablo fairy-lantern	Liliaceae	perennial bulbiferous herb	Apr-Jun	None	None	G2	S2	1B.2	Yes	1974-01-01	No Photo Available
Calochortus umbellatus	Oakland star-tulip	Liliaceae	perennial bulbiferous herb	Mar-May	None	None	G3?	S3?	4.2	Yes	1980-01-01	No Photo Available
Castilleja ambigua var. *ambigua*	johnny-nip	Orobanchaceae	annual herb (hemiparasitic)	Mar-Aug	None	None	G5T4	S3S4	4.2		2009-02-04	©2011 Dylan Neubauer
Centromadia parryi ssp. *congdonii*	Congdon's tarplant	Asteraceae	annual herb	(Apr)May-Oct(Nov)	None	None	G3T2	S2	1B.1	Yes	1994-01-01	No Photo Available
Eryngium jepsonii	Jepson's coyote-thistle	Apiaceae	perennial herb	Apr-Aug	None	None	G2	S2	1B.2	Yes	2016-09-13	No Photo Available
Extriplex joaquinana	San Joaquin spearscale	Chenopodiaceae	annual herb	Apr-Oct	None	None	G2	S2	1B.2	Yes	1988-01-01	No Photo Available

Fritillaria agrestis	stinkbells	Liliaceae	perennial bulbiferous herb	Mar-Jun	None	None	G3	S3	4.2	Yes	1980-01-01	© 2016 Aaron Schusteff
Fritillaria liliacea	fragrant fritillary	Liliaceae	perennial bulbiferous herb	Feb-Apr	None	None	G2	S2	1B.2	Yes	1974-01-01	© 2004 Carol W. Witham
Helianthella castanea	Diablo helianthella	Asteraceae	perennial herb	Mar-Jun	None	None	G2	S2	1B.2	Yes	1974-01-01	© 2013 Christopher Bronny
Hibiscus lasiocarpos var. *occidentalis*	woolly rose-mallow	Malvaceae	perennial rhizomatous herb (emergent)	Jun-Sep	None	None	G5T3	S3	1B.2	Yes	1974-01-01	© 2020 Steven Perry
Hoita strobilina	Loma Prieta hoita	Fabaceae	perennial herb	May-Jul(Aug-Oct)	None	None	G2?	S2?	1B.1	Yes	2001-01-01	© 2004 Janell Hillman
Isocoma arguta	Carquinez goldenbush	Asteraceae	perennial shrub	Aug-Dec	None	None	G1	S1	1B.1	Yes	1994-01-01	No Photo Available
Lasthenia conjugens	Contra Costa goldfields	Asteraceae	annual herb	Mar-Jun	FE	None	G1	S1	1B.1	Yes	1974-01-01	© 2013 Neal Kramer
Leptosiphon grandiflorus	large-flowered leptosiphon	Polemoniaceae	annual herb	Apr-Aug	None	None	G3G4	S3S4	4.2	Yes	1994-01-01	© 2003 Doreen L. Smith
Malacothamnus hallii	Hall's bushmallow	Malvaceae	perennial deciduous shrub	(Apr)May-Sep(Oct)	None	None	G2	S2	1B.2	Yes	1974-01-01	© 2017 Keir Morse
Monolopia gracilens	woodland woollythreads	Asteraceae	annual herb	(Feb)Mar-Jul	None	None	G3	S3	1B.2	Yes	2010-04-06	© 2016 Richard Spellenberg

Oenothera deltoides ssp. *howellii*	Antioch Dunes evening-primrose	Onagraceae	perennial herb	Mar-Sep	FE	CE	G5T1	S1	1B.1	Yes	1974-01-01	No Photo Available
Ranunculus lobbii	Lobb's aquatic buttercup	Ranunculaceae	annual herb (aquatic)	Feb-May	None	None	G4	S3	4.2		1974-01-01	No Photo Available
Streptanthus albidus ssp. *peramoenus*	most beautiful jewelflower	Brassicaceae	annual herb	(Mar)Apr-Sep(Oct)	None	None	G2T2	S2	1B.2	Yes	1988-01-01	© 1994 Robert E. Preston, Ph.D.
Stuckenia filiformis ssp. *alpina*	northern slender pondweed	Potamogetonaceae	perennial rhizomatous herb (aquatic)	May-Jul	None	None	G5T5	S2S3	2B.2		1994-01-01	Dana York (2016)
Viburnum ellipticum	oval-leaved viburnum	Viburnaceae	perennial deciduous shrub	May-Jun	None	None	G4G5	S3	2B.3		1974-01-01	© 2006 Tom Engstrom

Showing 1 to 24 of 24 entries

Suggested Citation:

California Native Plant Society, Rare Plant Program. 2024. Rare Plant Inventory (online edition, v9.5). Website https://www.rareplants.cnps.org [accessed 10 September 2024].

IPaC **U.S. Fish & Wildlife Service**

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

NOT FOR CONSULTATION

Location

Contra Costa County, California

Local office

Sacramento Fish And Wildlife Office

(916) 414-6600
(916) 414-6713

Federal Building

2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846

NOT FOR CONSULTATION

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

---

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

NOT FOR CONSULTATION

2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Birds

NAME	STATUS
California Least Tern Sternula antillarum browni Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/8104	Endangered
California Ridgway''s Rail Rallus obsoletus obsoletus Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/4240	Endangered

Reptiles

NAME	STATUS
Alameda Whipsnake (=striped Racer) Masticophis lateralis euryxanthus Wherever found There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/5524	Threatened
Northwestern Pond Turtle Actinemys marmorata Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1111	Proposed Threatened

Amphibians

NAME	STATUS
California Red-legged Frog Rana draytonii Wherever found There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/2891	Threatened

NOT FOR CONSULTATION

NAME	STATUS
Foothill Yellow-legged Frog Rana boylii	Threatened

No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/5133

Insects

NAME	STATUS
Monarch Butterfly Danaus plexippus Wherever found	Candidate

No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/9743

Crustaceans

NAME	STATUS
Vernal Pool Fairy Shrimp Branchinecta lynchi Wherever found	Threatened

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
https://ecos.fws.gov/ecp/species/498

Flowering Plants

NAME	STATUS
Contra Costa Goldfields Lasthenia conjugens Wherever found	Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
https://ecos.fws.gov/ecp/species/7058

NOT FOR CONSULTATION

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act[1] and the Migratory Bird Treaty Act[2].

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats[3], should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

There are likely bald eagles present in your project area. For additional information on bald eagles, refer to Bald Eagle Nesting and Sensitivity to Human Activity

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

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NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Jan 1 to Aug 31
Golden Eagle *Aquila chrysaetos* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680	Breeds Jan 1 to Aug 31

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (▪)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (▪)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

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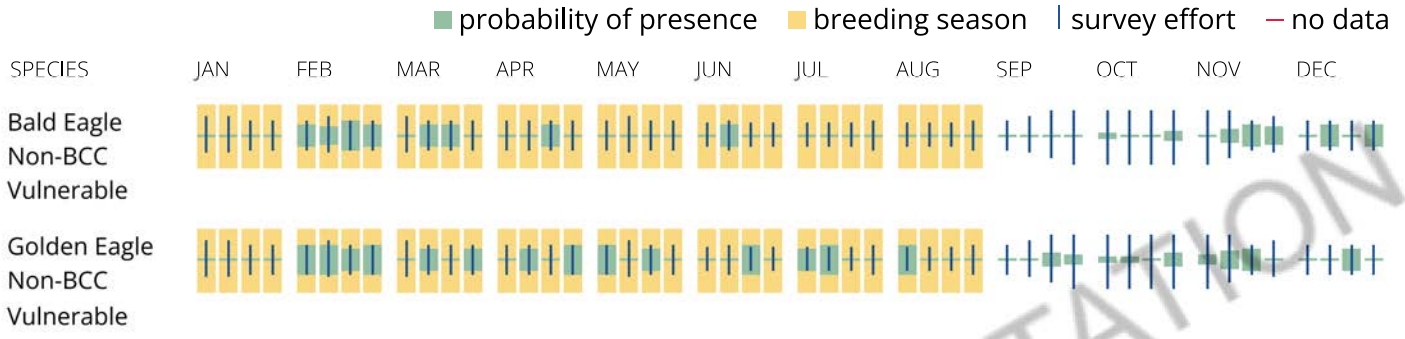
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply). To see a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs of bald and golden eagles in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What if I have eagles on my list?

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If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur. Please contact your local Fish and Wildlife Service Field Office if you have questions.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats[3] should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

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For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Allen's Hummingbird *Selasphorus sasin* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9637	Breeds Feb 1 to Jul 15
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Jan 1 to Aug 31
Belding's Savannah Sparrow *Passerculus sandwichensis beldingi* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/8	Breeds Apr 1 to Aug 15
Black-chinned Sparrow *Spizella atrogularis* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9447	Breeds Apr 15 to Jul 31
Bullock's Oriole *Icterus bullockii* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Mar 21 to Jul 25
California Gull *Larus californicus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 1 to Jul 31
California Thrasher *Toxostoma redivivum* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jan 1 to Jul 31
Clark's Grebe *Aechmophorus clarkii* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jun 1 to Aug 31

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Common Yellowthroat Geothlypis trichas sinuosa — Breeds May 20 to Jul 31
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
https://ecos.fws.gov/ecp/species/2084

Golden Eagle Aquila chrysaetos — Breeds Jan 1 to Aug 31
This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.
https://ecos.fws.gov/ecp/species/1680

Lawrence's Goldfinch Spinus lawrencei — Breeds Mar 20 to Sep 20
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9464

Marbled Godwit Limosa fedoa — Breeds elsewhere
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9481

Northern Harrier Circus hudsonius — Breeds Apr 1 to Sep 15
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
https://ecos.fws.gov/ecp/species/8350

Nuttall's Woodpecker Dryobates nuttallii — Breeds Apr 1 to Jul 20
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
https://ecos.fws.gov/ecp/species/9410

Oak Titmouse Baeolophus inornatus — Breeds Mar 15 to Jul 15
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9656

Olive-sided Flycatcher Contopus cooperi — Breeds May 20 to Aug 31
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/3914

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Santa Barbara Song Sparrow Melospiza melodia graminea This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/5513	Breeds Mar 1 to Sep 5
Tricolored Blackbird Agelaius tricolor This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3910	Breeds Mar 15 to Aug 10
Western Grebe aechmophorus occidentalis This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/6743	Breeds Jun 1 to Aug 31
Western Gull Larus occidentalis This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 21 to Aug 25
Western Screech-owl Megascops kennicottii cardonensis This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Mar 1 to Jun 30
Willet Tringa semipalmata This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Wrentit Chamaea fasciata This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 15 to Aug 10
Yellow-billed Magpie Pica nuttalli This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9726	Breeds Apr 1 to Jul 31

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Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read

"Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

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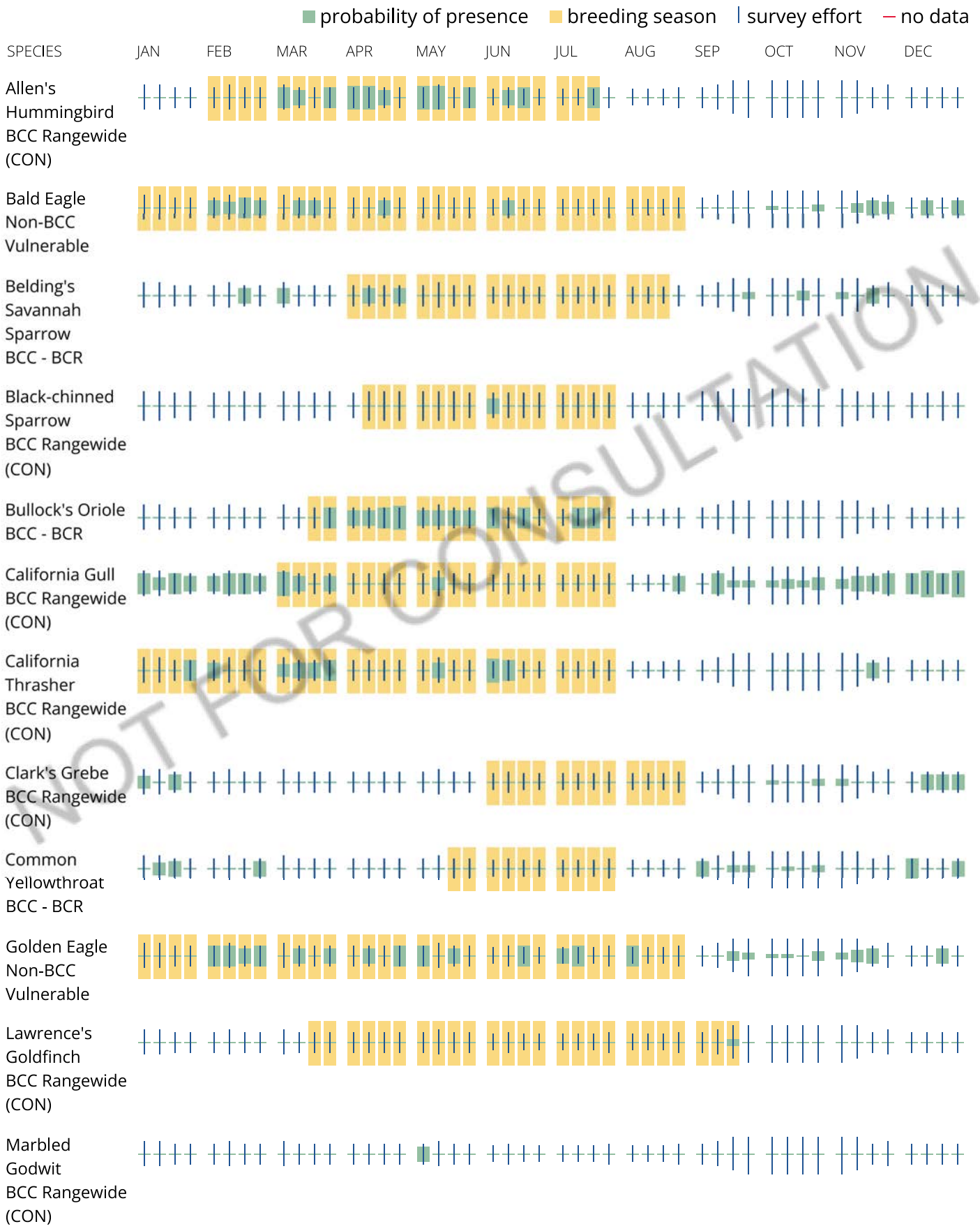
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



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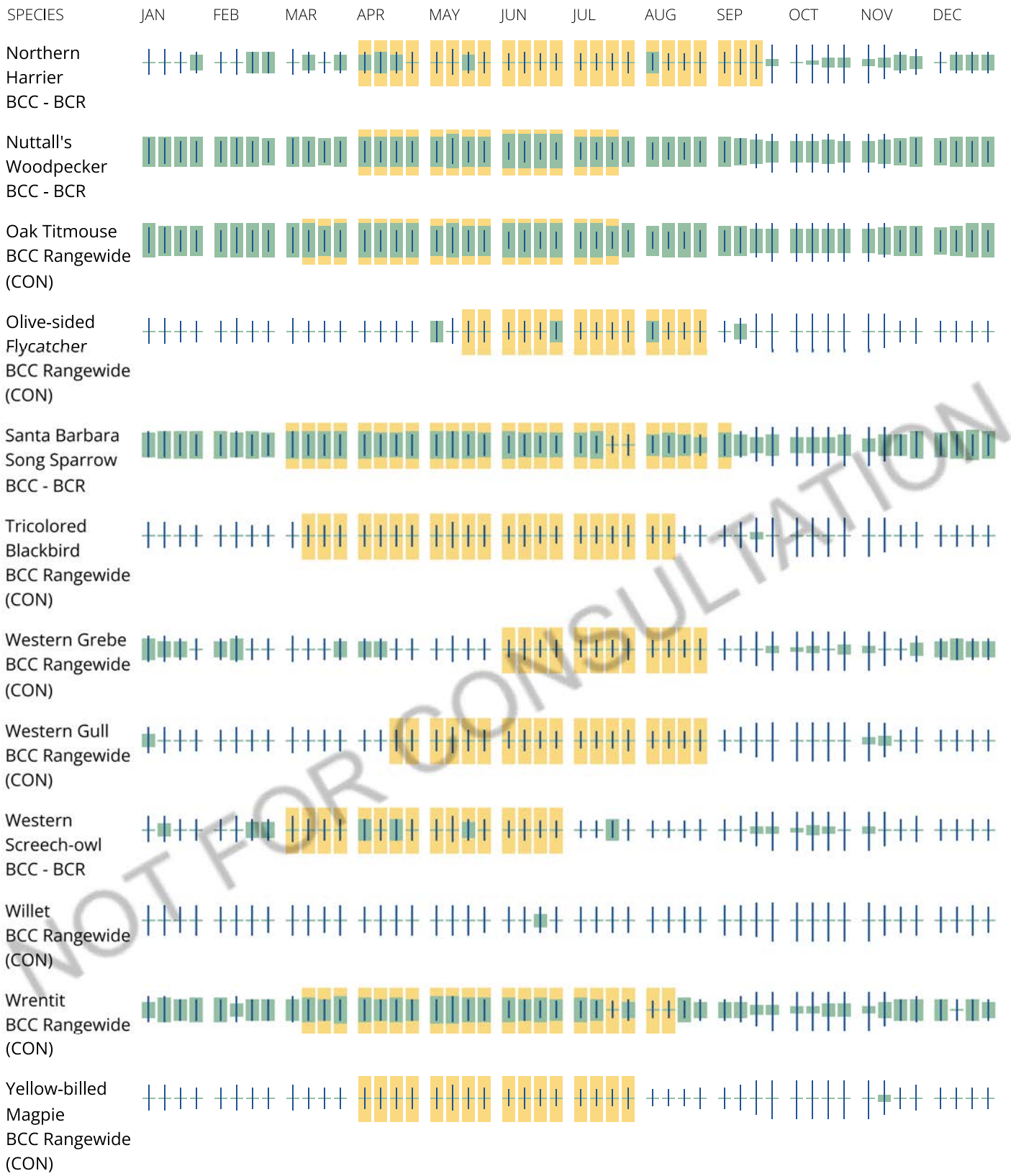

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Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure.

To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the RAIL Tool and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in

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offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

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Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

This location did not intersect any wetlands mapped by NWI.

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

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The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

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CARLSBAD
CLOVIS
IRVINE
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

MEMORANDUM

DATE: September 17, 2024

TO: Jeff Stone, Diamond Construction

FROM: Amy Fischer, Principal
Cara Cunningham, Associate

SUBJECT: Air Quality and Greenhouse Gas Analysis for the Oak Hill Road Project, Lafayette, California

INTRODUCTION

This Air Quality and Greenhouse Gas Analysis for the proposed Oak Hill Road Project (project) in Lafayette, California has been prepared using methods and assumptions recommended by the Bay Area Air Quality Management District (BAAQMD).[1] This analysis includes a description of the proposed project, the existing regulatory framework, an assessment of project construction and operation-period air quality and greenhouse gas (GHG) emissions, and an evaluation of the project's compliance with adopted plans related to the reduction of clean air and GHG emissions.

PROJECT DESCRIPTION

The project site is at 1001 Oak Hill Road in the Lafayette, Assessor's Parcel Numbers 243-030-033-1, 243-030-038-0, 243-030-020-8, and 243-030-041-4. The 1.21-acre project site is within the downtown core of Lafayette, approximately 300 feet north of Mount Diablo Boulevard on Oak Hill Road and approximately 1,000 feet from Bay Area Rapid Transit's (BART's) Lafayette Station. The site is zoned Special Retail Business (SRB) and currently consists of one three-story commercial/retail building (1009 Oak Hill Road, approximately 4,700 square feet), one single-story commercial/retail building (1003 Oak Hill Road, approximately 2,725 square feet), one two-story commercial/retail building (1007 Oak Hill Road, approximately 1,645 square feet), and asphalt parking lots surrounding the buildings. The project site slopes up to the northwest. There are mature trees throughout the project site between buildings and in streetscape areas. Immediately surrounding the project site to the north is the Oak Hill Road exit from eastbound State Route 24 (SR-24) and the SR-24/Oak Hill Road underpass; to the west are other residential and commercial buildings; to the south and east are commercial uses and the intersection of Oak Hill Road and Mount Diablo Boulevard.

[1] Bay Area Air Quality Management District (BAAQMD). 2023. *California Environmental Quality Act, Air Quality Guidelines*.

The proposed project would construct a seven-level, 172,399-gross square foot multifamily building containing 90 residential condominiums and 2,000 square feet of commercial use situated in the downtown retail district of downtown Lafayette. The structure would include a below-grade parking garage with 164 parking spaces with 151 spaces provided by use of a mechanical/stacked parking system. The project would require the demolition and removal of all existing buildings (1003, 1007, and 1009 Oak Hill Road) and removal of 18 trees.

The project would include rooftop solar panels and would be equipped with bioretention planters along the face of the building on Oak Hill Road. Electrical vehicle charging would be provided as required by applicable codes and some bicycle parking would be provided near the building's lobby and entry locations. The proposed project would utilize electricity for all energy needs and would not include natural gas. The proposed project does not include any type of fireplace devices in the units.

Construction activities are anticipated to take place between October 2025 and December 2027. Construction of the proposed project would require the demolition of approximately 9,070 square feet of existing buildings and would require the export of 4,000 cubic yards of soil. In addition, construction of the proposed project would use Tier 2 construction equipment equipped with Level 3 diesel particulate filters (DPF).

ENVIRONMENTAL SETTING

Air Quality Background

Air quality is primarily a function of both local climate, local sources of air pollution and regional pollution transport. The amount of a given pollutant in the atmosphere is determined by the amount of the pollutant released and the atmosphere's ability to transport and dilute the pollutant. The major determinants of transport and dilution are wind, atmospheric stability, terrain, and for photochemical pollutants, sunshine.

A region's topographic features have a direct correlation with air pollution flow and, therefore, are used to determine the boundary of air basins. Lafayette is located within the San Francisco Bay Area Air Basin (Air Basin), a large shallow air basin ringed by hills that taper into a number of sheltered valleys around the perimeter. Two primary atmospheric outlets exist. One is through the strait known as the Golden Gate, a direct outlet to the Pacific Ocean. The second extends to the northeast, along the west delta region of the Sacramento and San Joaquin rivers.

Lafayette is within the jurisdiction of the BAAQMD, which regulates air quality in the Bay Area. Air quality conditions in the Bay Area have improved significantly since the BAAQMD was created in 1955. Ambient concentrations of air pollutants and the number of days during which the region exceeds air quality standards have fallen dramatically. Neither State nor national ambient air quality standards of the following chemicals have been violated in recent decades: nitrogen dioxide (NO_2), sulfur dioxide (SO_2), sulfates, lead (Pb), hydrogen sulfide, and vinyl chloride. Those exceedances of air quality standards that do occur primarily happen during meteorological conditions conducive to high pollution levels, such as cold, windless nights or hot, sunny summer afternoons.

Both State and federal governments have established health-based ambient air quality standards for six criteria air pollutants: carbon monoxide (CO), ozone (O_3), NO_2, SO_2, Pb, and suspended particulate matter. In addition, the State has set standards for sulfates, hydrogen sulfide, vinyl chloride and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety. Two criteria pollutants, O_3 and NO_2, are considered regional pollutants because they (or their precursors) affect air quality on a regional scale. Pollutants such as CO, SO_2, and Pb are considered local pollutants that tend to accumulate in the air locally. The BAAQMD is under State non-attainment status for O_3 and particulate matter standards. The BAAQMD is classified as non-attainment for the federal O_3 8-hour standard and non-attainment for the federal particulate matter 2.5 microns or less in diameter ($PM_{2.5}$) 24-hour standard. As such, the primary pollutants of concern in the project area are O_3, CO, and $PM_{2.5}$.

Because of the conservative nature of the significance thresholds and the Air Basin-wide context of individual development project emissions, there is no direct correlation between a single project and localized air quality-related health effects. One individual project that generates emissions exceeding a threshold does not necessarily result in adverse health effects for residents in the project vicinity. This condition is especially true when the criteria pollutants exceeding thresholds are those with regional effects, such as O_3 precursors like nitrogen oxides (NO_x) and reactive organic gases (ROG).

Further, by its very nature, air pollution is largely a cumulative impact. No single project is sufficient in size to by itself result in nonattainment of ambient air quality standards. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's contribution to the cumulative impact is considerable, then the project's impact on air quality would be considered significant. In developing thresholds of significance for air pollutants, the air districts have considered the emission levels for which a project's individual emissions would be cumulatively considerable. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions.

Occupants of facilities such as schools, daycare centers, parks and playgrounds, hospitals, and nursing and convalescent homes are considered to be more sensitive than the general public to air pollutants because these population groups have increased susceptibility to respiratory disease. Persons engaged in strenuous work or exercise also have increased sensitivity to poor air quality. Residential areas are considered more sensitive to air quality conditions, compared to commercial and industrial areas, because people generally spend longer periods of time at their residences, with greater associated exposure to ambient air quality conditions. Recreational uses are also considered sensitive compared to commercial and industrial uses due to greater exposure to ambient air quality conditions associated with exercise. These populations are referred to as sensitive receptors.

Greenhouse Gas and Global Climate Change Background

Greenhouse gases (GHGs) are present in the atmosphere naturally, are released by natural sources, or are formed from secondary reactions taking place in the atmosphere. The gases that are widely seen as the principal contributors to human-induced global climate change are:

- Carbon dioxide (CO_2);
- Methane (CH_4);
- Nitrous oxide (N_2O);
- Hydrofluorocarbons (HFCs);
- Perfluorocarbons (PFCs); and
- Sulfur hexafluoride (SF_6).

Over the last 200 years, humans have caused substantial quantities of GHGs to be released into the atmosphere. These extra emissions are increasing GHG concentrations in the atmosphere and enhancing the natural greenhouse effect, which is believed to be causing global warming. While manmade GHGs include naturally occurring GHGs such as CO_2, CH_4, and N_2O, some gases, like HFCs, PFCs, and SF_6, are completely new to the atmosphere.

Certain gases, such as water vapor, are short-lived in the atmosphere. Others remain in the atmosphere for significant periods of time, contributing to climate change in the long term. Water vapor is excluded from the list of GHGs above because it is short-lived in the atmosphere and its atmospheric concentrations are largely determined by natural processes, such as oceanic evaporation.

These gases vary considerably in terms of Global Warming Potential (GWP), which is a concept developed to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The GWP is based on several factors, including the relative effectiveness of a gas to absorb infrared radiation and length of time that the gas remains in the atmosphere ("atmospheric lifetime"). The GWP of each gas is measured relative to CO_2, the most abundant GHG; the definition of GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to the ratio of heat trapped by one unit mass of CO_2 over a specified time period. GHG emissions are typically measured in terms of pounds or tons of "CO_2 equivalents" (CO_2e).

REGULATORY FRAMEWORK

This section provides regulatory background information for air quality and GHGs.

Air Quality

Federal Regulations

The 1970 federal Clean Air Act (CAA) authorized the establishment of national health-based air quality standards and set deadlines for their attainment. The CAA Amendments of 1990 changed deadlines for attaining national standards as well as the remedial actions required for areas of the nation that exceed the standards. Under the CAA, State and local agencies in areas that exceed the national standards are required to develop State Implementation Plans to demonstrate how they will achieve the national standards by specified dates.

State Regulations

In 1988, the California Clean Air Act (CCAA) required that all air districts in the State endeavor to achieve and maintain California Ambient Air Quality Standards (CAAQS) for CO, O_3, SO_2, and NO_2 by

the earliest practical date. The CCAA provides districts with authority to regulate indirect sources and mandates that air quality districts focus particular attention on reducing emissions from transportation and area-wide emission sources. Each nonattainment district is required to adopt a plan to achieve a 5 percent annual reduction, averaged over consecutive 3-year periods, in district-wide emissions of each nonattainment pollutant or its precursors. A Clean Air Plan shows how a district would reduce emissions to achieve air quality standards. Generally, the State standards for these pollutants are more stringent than the national standards.

The California Air Resources Board (CARB) is the State's "clean air agency." The CARB's goals are to attain and maintain healthy air quality, protect the public from exposure to toxic air contaminants, and oversee compliance with air pollution rules and regulations.

Regional Regulations

The BAAQMD seeks to attain and maintain air quality conditions in the Air Basin through a comprehensive program of planning, regulation, enforcement, technical innovation, and education. The clean air strategy includes the preparation of plans for the attainment of ambient air quality standards, adoption and enforcement of rules and regulations, and issuance of permits for stationary sources. The BAAQMD also inspects stationary sources and responds to citizen complaints, monitors ambient air quality and meteorological conditions, and implements programs and regulations required by law.

Clean Air Plan. The Clean Air Plan guides the region's air quality planning efforts to attain the CAAQS.[2] The BAAQMD 2017 Clean Air Plan (Clean Air Plan), which was adopted on April 19, 2017, by the BAAQMD Board of Directors, is the current Clean Air Plan that contains district-wide control measures to reduce O_3 precursor emissions (e.g., reactive organic gases and NO_x), particulate matter and GHG emissions.

The Bay Area 2017 Clean Air Plan:

- Describes the BAAQMD plan towards attaining all State and federal air quality standards and eliminating health risk disparities from exposure to air pollution among Bay Area communities.
- Defines a vision for transitioning the region to a post-carbon economy needed to achieve ambitious GHG reduction targets for 2030 and 2050.
- Provides a regional climate protection strategy that will put the Bay Area on a pathway to achieve GHG reduction targets.
- Includes a wide range of control measures designed to decrease emissions of air pollutants that are most harmful to Bay Area residents, such as particulate matter, O_3, and toxic air contaminants; to reduce emissions of methane and other "super-GHGs" that are potent climate

[2] Bay Area Air Quality Management District. 2017. *Final 2017 Clean Air Plan*. April 19. Website: www.baaqmd.gov/~/media/files/planning-and-research/plans/2017-clean-air-plan/attachment-a_-proposed-final-cap-vol-1-pdf.pdf?la=en (accessed September 2024).

pollutants in the near term; and to decrease emissions of CO_2 by reducing fossil fuel combustion.

BAAQMD CEQA Air Quality Guidelines. The BAAQMD California Environmental Quality Act (CEQA) Air Quality Guidelines were prepared to assist in the evaluation of air quality impacts of projects and plans proposed within the Bay Area. The guidelines provide recommended procedures for evaluating potential air impacts during the environmental review process, consistent with CEQA requirements, and include recommended thresholds of significance, mitigation measures, and background air quality information. They also include recommended assessment methodologies for air toxics, odors, and GHG emissions.

In 2023, the BAAQMD published an updated version of its CEQA Guidelines. The BAAQMD CEQA Guidelines include thresholds to evaluate project impacts to protectively evaluate the potential effects of the project on air quality. These protective thresholds are appropriate in the context of the size, scale, and location of the proposed project.

Local Regulations

The Open Space and Conservation Element of the *City of Lafayette General Plan*[3] includes air quality policies and implementation programs that focus on identifying and mitigating the air quality impacts of projects, particularly in areas near to sensitive receptors. The following policies and implementation programs are applicable to the project.

- Policy OS-10.1. Regional Planning: Work with the Bay Area Air Quality Management District (BAAQMD) to implement the Regional Clean Air Plan.
- Policy OS-10.2. Air Quality Standards: Seek to comply with State and Federal Standards for air quality.
    - Program OS-10.2.1: Incorporate the provisions of the BAAQMD's Air Quality and Urban Development: Guidelines for Assessing Impacts of Projects and Plans into CEQA project review procedures.
    - Program OS-10.2.5: Amend the grading ordinance to include thorough dust control provisions.
- Policy OS-10.3. Vehicle Emissions: Improve air quality by reducing the use of single-occupant automobiles.

Greenhouse Gas Emissions

This section describes regulations related to GHG emissions at the federal, State, and local level.

[3] Lafayette, City of. 2002. *City of Lafayette General Plan, Open Space & Conservation Element*. October. Website: https://www.lovelafayette.org/home/showpublisheddocument/1931/635561390008430000 (accessed September 2024).

Federal Regulations

The United States has historically had a voluntary approach to reducing GHG emissions. However, on April 2, 2007, the United States Supreme Court ruled that the EPA has the authority to regulate CO_2 emissions under the CAA.

While there currently are no adopted federal regulations for the control or reduction of GHG emissions, the EPA commenced several actions in 2009 to implement a regulatory approach to global climate change, including the 2009 EPA final rule for mandatory reporting of GHGs from large GHG emission sources in the United States. Additionally, the EPA Administrator signed an endangerment finding action in 2009 under the CAA, finding that seven GHGs (CO_2, CH_4, N_2O, HFCs, nitrogen trifluoride (NF_3), PFCs, and SF_6) constitute a threat to public health and welfare, and that the combined emissions from motor vehicles cause and contribute to global climate change, leading to national GHG emission standards.

State Regulations

The CARB is the lead agency for implementing climate change regulations in the State. Since its formation, the CARB has worked with the public, the business sector, and local governments to find solutions to California's air pollution problems. Key efforts by the State are described below.

Assembly Bill 32 (2006), California Global Warming Solutions Act. California's major initiative for reducing GHG emissions is Assembly Bill (AB) 32, passed by the State Legislature on August 31, 2006. This effort set a GHG emission reduction target to reduce GHG emissions to 1990 levels by 2020. The CARB has established the level of GHG emissions in 1990 at 427 million metric tons (MMT) CO_2e. The emissions target of 427 MMT CO_2e requires the reduction of 169 MMT from the State's projected business-as-usual 2020 emissions of 596 MMT. AB 32 requires the CARB to prepare a Scoping Plan that outlines the main State strategies for meeting the 2020 deadline and to reduce GHGs that contribute to global climate change. The CARB approved the Scoping Plan on December 11, 2008, which contains the main strategies California will implement to achieve GHG reduction goals and includes CARB-recommended GHG reductions for each emissions sector of the State's GHG inventory.

The CARB approved the First Update to the Climate Change Scoping Plan on May 22, 2014. The First Update identifies opportunities to leverage existing and new funds to further drive GHG emission reductions through strategic planning and targeted low-carbon investments. The First Update defines CARB climate change priorities until 2020 and sets the groundwork to reach long-term goals set forth in Executive Orders S-3-05 and B-16-2012. The Update highlights California's progress toward meeting the "near-term" 2020 GHG emission reduction goals as defined in the initial Scoping Plan. It also evaluates how to align the State's "longer-term" GHG reduction strategies with other State policy priorities for water, waste, natural resources, clean energy, transportation, and land

use. The CARB released a second update to the Scoping Plan, the 2017 Scoping Plan,[4] to reflect the 2030 target set by Executive Order B-30-15 and codified by Senate Bill (SB) 32.

The 2022 Scoping Plan[5] was approved in December 2022 and assesses progress toward the statutory 2030 target, while laying out a path to achieving carbon neutrality no later than 2045. The 2022 Scoping Plan Update focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others, and is designed to meet the State's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities.

Senate Bill 375 (2008). Signed into law on October 1, 2008, SB 375 supplements GHG reductions from new vehicle technology and fuel standards with reductions from more efficient land use patterns and improved transportation. Under the law, the CARB approved GHG reduction targets in February 2011 for California's 18 federally designated regional planning bodies, known as Metropolitan Planning Organizations (MPO). The CARB may update the targets every 4 years and must update them every 8 years. MPOs, in turn, must demonstrate how their plans, policies and transportation investments meet the targets set by the CARB through Sustainable Community Strategies (SCS). The SCSs are included with the Regional Transportation Plan, a report required by State law. However, if an MPO finds that its SCS will not meet the GHG reduction target, it may prepare an Alternative Planning Strategy (APS). The APS identifies the impediments to achieving the targets.

Executive Order B-30-15 (2015). Governor Jerry Brown signed Executive Order B-30-15 on April 29, 2015, which added the immediate target of:

- GHG emissions should be reduced to 40 percent below 1990 levels by 2030.

All State agencies with jurisdiction over sources of GHG emissions were directed to implement measures to achieve reductions of GHG emissions to meet the 2030 and 2050 targets. The CARB was directed to update the AB 32 Scoping Plan to reflect the 2030 target, and, therefore, is moving forward with the update process. The mid-term target is critical to help frame the suite of policy measures, regulations, planning efforts, and investments in clean technologies and infrastructure needed to continue reducing emissions.

Senate Bill 350 (2015) Clean Energy and Pollution Reduction Act. SB 350, signed by Governor Jerry Brown on October 7, 2015, updates and enhances AB 32 by introducing the following set of objectives in clean energy, clean air, and pollution reduction for 2030:

- Raise California's renewable portfolio standard from 33 percent to 50 percent

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4 California Air Resources Board. 2017. *California's 2017 Climate Change Scoping Plan*. November. Website: ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/scoping_plan_2017.pdf (accessed September 2024).

5 California Air Resources Board. 2022. *2022 Scoping Plan*. November 16. Website: https://ww2.arb.ca.gov/sites/default/files/2022-12/2022-sp.pdf (accessed September 2024).

- Increase energy efficiency in buildings by 50 percent by the year 2030

The 50 percent renewable energy standard will be implemented by the California Public Utilities Commission for the private utilities and by the California Energy Commission (CEC) for municipal utilities. Each utility must submit a procurement plan showing it will purchase clean energy to displace other nonrenewable resources. The 50 percent increase in energy efficiency in buildings must be achieved through the use of existing energy efficiency retrofit funding and regulatory tools already available to State energy agencies under existing law. The addition made by this legislation requires State energy agencies to plan for and implement those programs in a manner that achieves the energy efficiency target.

Senate Bill 32, California Global Warming Solutions Act of 2016, and Assembly Bill 197. In summer 2016, the Legislature passed and the Governor signed SB 32 and AB 197. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions target of at least 40 percent below 1990 levels by 2030 contained in Governor Brown's April 2015 Executive Order B-30-15. SB 32 builds on AB 32 and keeps us on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels, consistent with an Intergovernmental Panel on Climate Change analysis of the emission trajectory that would stabilize atmospheric GHG concentrations at 450 parts per million CO_2e and reduce the likelihood of catastrophic impacts from climate change.

The companion bill to SB 32, AB 197, provides additional direction to the CARB related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 meant to provide easier public access to air pollutant emissions data that are collected by the CARB was posted in December 2016.

Senate Bill 100. On September 10, 2018, Governor Brown signed SB 100, which raises California's renewable portfolio standard requirements to 60 percent by 2030, with interim targets, and 100 percent by 2045. The bill also establishes a State policy that eligible renewable energy resources and zero-carbon resources supply 100 percent of all retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all State agencies by December 31, 2045. Under the bill, the State cannot increase carbon emissions elsewhere in the Western grid or allow resource shuffling to achieve the 100 percent carbon-free electricity target.

Executive Order B-55-18. Executive Order B-55-18, signed September 10, 2018, sets a goal "to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter." Executive Order B-55-18 directs the CARB to work with relevant State agencies to ensure future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal. The goal of carbon neutrality by 2045 is in addition to other statewide goals, meaning not only should emissions be reduced to 80 percent below 1990 levels by 2050, but that, by no later than 2045, the remaining emissions be offset by equivalent net removals of CO_2e from the atmosphere, including through sequestration in forests, soils, and other natural landscapes.

Assembly Bill (AB) 1279. AB 1279 was signed in September 2022 and codifies the State goals of achieving net carbon neutrality by 2045 and maintaining net negative GHG emissions thereafter.

This bill also requires California to reduce statewide GHG emissions by 85 percent compared to 1990 levels by 2045 and directs CARB to work with relevant State agencies to achieve these goals.

California Building Standards Code (Title 24). The California Building Standards Code, or Title 24 of the California Code of Regulations contains the regulations that govern the construction of buildings in California. Within the Building Standards Code, two parts pertain to the incorporation of both energy efficient and green building elements into land use development. Part 6 is California's Energy Efficiency Standards for Residential and Non-Residential Buildings. These standards were first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption and are updated on an approximately 3-year cycle to allow consideration and possible incorporation of new energy efficient technologies and methods. In November 2008, the California Building Standards Commission established the California Green Building Standards Code, Title 24, Part 11 (CALGreen Code), which sets performance standards for residential and non-residential development to reduce environmental impacts and encourage sustainable construction practices. The CALGreen Code addresses energy efficiency, water conservation, material conservation, planning and design, and overall environmental quality. The current standards were adopted in 2022 and apply to projects seeking building permits on or after January 1, 2023. Mid-cycle supplements to the 2022 Code became effective on July 1, 2024.

Executive Order N-79-20. EO N-79-20, which was signed by the Governor on September 23, 2020, sets the following goals for the State: 100 percent of in-state sales of new passenger cars and trucks shall be zero-emission by 2035; 100 percent of medium- and heavy-duty vehicles in the State shall be zero-emission by 2045 for all operations where feasible and by 2035 for drayage trucks; and 100 percent of off-road vehicles and equipment in the State shall be zero-emission by 2035, where feasible.

Regional Regulations

The BAAQMD is the regional government agency that regulates sources of air pollution within the nine Bay Area counties. The BAAQMD regulates GHG emissions through the following guidelines.

BAAQMD CEQA Air Quality Guidelines. The BAAQMD CEQA Air Quality Guidelines incorporates updated GHG significance thresholds. The BAAQMD recommends these thresholds of significance for use in determining whether a proposed project will have a significant impact related to climate change. These thresholds evaluate a project based on its effect on California's efforts to meet the State's long-term climate goals. Applying this approach, the BAAQMD identifies and provides supporting documentation, outlining the requirements for new land use development projects necessary to achieve California's long-term climate goal of carbon neutrality by 2045. Based on their analysis, the BAAQMD found that new land use development projects need to incorporate design elements to do its "fair share" to implement the goal of carbon neutrality by 2045. If a project is designed and built to incorporate the identified design elements, then it will contribute its portion of what is necessary to achieve California's long-term climate goals—its "fair share"—and an agency reviewing the project under CEQA can conclude that the project will not make a cumulatively considerable contribution to global climate change. The document concludes that if a project does not incorporate these design elements, then it should be found to make a significant climate impact because it will hinder California's efforts to address climate change.

Local Regulations

The City of Lafayette (City) adopted its Environmental Action Plan (EAP)[6] in November 2006 to guide and help the City achieve its sustainable goals by developing criteria for evaluating long-term impacts of the City's decisions. The EAP is a policy document that includes goals and associated recommended programs, enabling the City to maintain control while implementing State mandates to lower GHG emissions and monitor other environmental factors. The plan includes goals and policies in the categories of resource conservation, community health, transportation, and open space, parks and landscape. The following goals and policies are applicable to the proposed project.

- **Solid Waste:**
    - SW Goal 1. Increase community waste reduction, recycling, and composting to 75 percent of yearly solid waste generation by 2025.
- **Energy:**
    - EU-Goal 1. Community Energy Use: Reduce community energy use from 2015 by 5 percent by 202, 10 percent by 2025, 15 percent by 2030, and transition to 75 percent renewable energy by 2025.
- **Green Construction:**
    - GC-Goal 1. Community Green Construction: Increase of certified green buildings on an ongoing basis.
- **Transportation:**
    - T-Goal 1. Reduce community-wide GHG emissions caused by transportation to the maximum extent practicable as directed by the council.

METHODOLOGY

This section describes the methodology and assumptions used to evaluate the proposed project's air quality and GHG impacts.

Construction Emissions

Construction activities can generate a substantial amount of air pollution. Construction activities are considered temporary; however, short-term impacts can contribute to exceedances of air quality standards. Construction activities include demolition, site preparation, earthmoving, and general construction. The emissions generated from these common construction activities include fugitive dust from soil disturbance, fuel combustion from mobile heavy-duty diesel- and gasoline-powered equipment, portable auxiliary equipment, and worker commute trips. The California Emissions Estimator Model (CalEEMod) Version 2022.1 computer program was used to calculate emissions

[6] Lafayette, City of. 2006. *City of Lafayette Environmental Action Plan*. November.

from on-site construction equipment and emissions from worker and vehicle trips to the site. Construction of the proposed project is anticipated to begin October 2025 and end in December 2027. Construction of the proposed project would require the demolition of approximately 9,070 square feet of existing buildings and would require the export of 4,000 cubic yards of soil, which was included in CalEEMod. In addition, construction of the proposed project would use Tier 2 Final construction equipment equipped with Level 3 DPF, which was also included in CalEEMod. Other detailed construction information is currently unavailable; therefore, this analysis uses CalEEMod default assumptions.

Construction Health Risk Assessment

A construction health risk assessment (HRA), which evaluates construction-period health risk to off-site receptors, was performed for the proposed project, and the analysis is presented below. To estimate the potential cancer risk associated with construction of the proposed project from equipment exhaust (including diesel particulate matter), a dispersion model was used to translate an emission rate from the source location to a concentration at the receptor location of interest (i.e., a nearby residence and worksites). Dispersion modeling varies from a simpler, more conservative screening-level analysis to a more complex and refined detailed analysis. This refined assessment was conducted using the CARB exposure methodology with the air dispersion modeling performed using the EPA dispersion model AERMOD. The model provides a detailed estimate of exhaust concentrations based on site and source geometry, source emissions strength, distance from the source to the receptor, and meteorological data.

Operational Emissions

This air quality analysis includes an estimate of emissions associated with long-term operation of the project. Indirect emissions of criteria pollutants with regional impacts would be emitted by project-generated vehicle trips. In addition, localized air quality impacts (i.e., higher CO_2 concentrations or "hot-spots") near intersections or roadway segments in the project vicinity would also potentially occur due to project-generated vehicle trips.

Consistent with BAAQMD's guidance for estimating emissions, the CalEEMod computer program was used to calculate the long-term operational emissions associated with the project. The analysis was conducted using land use codes *Condo/Townhouse*, *Strip Mall*, and *Enclosed Parking with Elevator.* Based on the project's Transportation Impact Analysis (TIA)[7], the existing uses that will be demolished generate 494 average daily trips and the proposed project would generate 518 average daily trips. As such, the proposed project would generate a net increase of 24 daily trips, which was included in CalEEMod. In addition, the proposed project would be all-electric and would not include any type of fireplace devices in the units, which was included in CalEEMod. Where project-specific data were not available, default assumptions (e.g., energy usage, water usage, and solid waste generation) from CalEEMod were used to estimate project emissions. CalEEMod output sheets are included in Attachment A.

[7] LSA. 2024. *Transportation Impact Analysis for the Oak Hill Apartments Project*. September.

Greenhouse Gas Emissions

GHG emissions associated with the project would occur over the short-term from construction activities, consisting primarily of emissions from equipment exhaust. There would also be long-term GHG emissions associated with project-related area sources, energy consumption, water conveyance and treatment, and waste generation.

THRESHOLDS OF SIGNIFICANCE

The *State CEQA Guidelines* indicate that a project would normally have a significant adverse air quality impact if project-generated pollutant emissions would:

- Conflict with or obstruct implementation of the applicable air quality plan;
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project is nonattainment under an applicable federal or state ambient air quality standard;
- Expose sensitive receptors to substantial pollutant concentrations; or
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

According to the BAAQMD CEQA Guidelines, to meet air quality standards for criteria air pollutant and air precursor impacts, the proposed project must not:

- Contribute to CO concentrations exceeding the State ambient air quality standards;
- Generate average daily construction emissions of ROG, NO_x or $PM_{2.5}$ (exhaust) greater than 54 pounds per day or PM_{10} [particulate matter 10 microns or less in diameter] exhaust emissions greater than 82 pounds per day;
- Generate operational emissions of ROG, NO_x or $PM_{2.5}$ of greater than 10 tons per year or 54 pounds per day or PM_{10} emissions greater than 15 tons per year or 82 pounds per day; or
- Exceed a cancer risk level of more than 10 in one million, a non-cancer risk (i.e., chronic or acute) hazard index greater than 1.0, or result in incremental increase of greater than 0.3 micrograms per cubic meter annual average $PM_{2.5}$.

The State *CEQA Guidelines* indicate that a project would normally have a significant adverse GHG emission impact if the project would:

- Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment; or
- Conflict with an applicable plan, policy or regulation adopted for the purpose of reduction the emissions of greenhouse gases.

According to the BAAQMD CEQA Guidelines, a project would have a less than significant impact related to GHG emissions if it would:

a. Include, at a minimum, the following project design elements:

    1. Buildings

        a. The project will not include natural gas appliances or natural gas plumbing (in both residential and nonresidential development).

        b. The project will not result in any wasteful, inefficient, or unnecessary electrical usage as determined by the analysis required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the State CEQA Guidelines.

    2. Transportation

        a. Achieve a reduction in project-generated vehicle miles traveled (VMT) below the regional average consistent with the current version of the California Climate Change Scoping Plan (currently 15 percent) or meet a locally adopted Senate Bill 743 VMT target, reflecting the recommendations provided in the Governor's Office of Planning and Research's Technical Advisory on Evaluating Transportation Impacts in CEQA:

            1. Residential projects: 15 percent below the existing VMT per capita

            2. Office projects: 15 percent below the existing VMT per employee

            3. Retail projects: no net increase in existing VMT

        b. Achieve compliance with off-street electric vehicle requirements in the most recently adopted version of CALGreen Tier 2.

b. Or be consistent with a local GHG reduction strategy that meets the criteria under State CEQA Guidelines Section 15183.5(b).

PROJECT IMPACTS

The sections below describe the proposed project's consistency with applicable air quality plans, estimated project emissions, and the significance of impacts for both air quality and GHG emissions with respect to BAAQMD thresholds.

Air Quality

Consistency with Applicable Air Quality Plans

The applicable air quality plan is the BAAQMD 2017 Clean Air Plan, which defines control strategies to reduce emissions and ambient concentrations of air pollutants; safeguard public health by reducing exposure to air pollutants that pose the greatest heath risk, with an emphasis on protecting the communities most heavily affected by air pollution; and reduce GHG emissions to

protect the climate. Consistency with the Clean Air Plan can be determined if the project: (1) supports the goals of the Clean Air Plan, (2) includes applicable control measures from the Clean Air Plan, and (3) would not disrupt or hinder implementation of any control measures from the Clean Air Plan.

Clean Air Plan Goals. The primary goals of the Bay Area Clean Air Plan are to attain air quality standards, reduce population exposure and protect public health in the Bay Area, and reduce GHG emissions and protect the climate.

The BAAQMD has established significance thresholds for project construction and operational impacts at a level at which the cumulative impact of exceeding these thresholds would have an adverse impact on the region's attainment of air quality standards. The health and hazards thresholds were established to help protect public health. As discussed below, construction and operation of the proposed project would not result in the generation of criteria air pollutants that would exceed BAAQMD thresholds of significance. Therefore, the proposed project would not conflict with the Clean Air Plan goals.

Clean Air Plan Control Measures. The control strategies of the Clean Air Plan include measures in the following categories: Stationary Source Measures, Transportation Measures, Energy Measures, Building Measures, Agriculture Measures, Natural and Working Lands Measures, Waste Management Measures, Water Measures, and Super-GHG Pollutants Measures. The proposed project's compliance with each of these control measures is discussed below.

Stationary Source Control Measures. The Stationary Source Control Measures, which are designed to reduce emissions from stationary sources such as metal melting facilities, cement kilns, refineries, and glass furnaces, are incorporated into rules adopted by the BAAQMD and then enforced by the BAAQMD Permit and Inspection programs. Since the proposed project would not include any of these stationary sources, the Stationary Source Control Measures of the Clean Air Plan are not applicable to the proposed project.

Transportation Control Measures. The BAAQMD identifies Transportation Control Measures as part of the Clean Air Plan to decrease emissions of criteria pollutants, toxic air contaminant (TAC), and GHGs by reducing demand for motor vehicle travel, promoting efficient vehicles and transit service, decarbonizing transportation fuels, and electrifying motor vehicles and equipment. The proposed project would result in the redevelopment of the site with residential and commercial uses on an infill site that would locate residents, employees, and visitors near existing residential, commercial, and retail uses, as well as mass transit options, reducing the demand for travel by single-occupancy vehicles. Therefore, the proposed project would not conflict with the identified Transportation and Mobile Source Control Measures of the Clean Air Plan.

Energy Control Measures. The Clean Air Plan also includes Energy Control Measures, which are designed to reduce emissions of criteria air pollutants, TACs, and GHGs by decreasing the amount of electricity consumed in the Bay Area and decreasing the carbon intensity of the electricity used by switching to less GHG-intensive fuel sources for electricity generation. These measures apply to electrical utility providers and local government agencies (and not individual

projects). However, the proposed project would be required to comply with all federal, State, and local requirements for energy efficiency, including the latest California Energy Code and California Green Building Standards Code (CALGreen) standards. Therefore, the proposed project would not conflict with the energy control measures of the Clean Air Plan.

Building Control Measures. The BAAQMD has authority to regulate emissions from certain sources in buildings such as boilers and water heaters but has limited authority to regulate buildings themselves. Therefore, the strategies in the control measures for this sector focus on working with local governments that do have authority over local building codes, to facilitate adoption of best GHG control practices and policies. The proposed project would be required to comply with the latest California Energy Code and CALGreen standards regarding energy conservation and green building standards. Therefore, the proposed project would not conflict with any of the Building Control Measures.

Agriculture Control Measures. The Agriculture Control Measures are designed to primarily reduce emissions of methane. Since the project does not include any agricultural activities, the Agriculture Control Measures of the Clean Air Plan are not applicable to the proposed project.

Natural and Working Lands Control Measures. The Natural and Working Lands Control Measures focus on increasing carbon sequestration on rangelands and wetlands and encouraging local governments to adopt ordinances that promote urban tree plantings. Since the proposed project does not include the disturbance of any rangelands or wetlands, the Natural and Working Lands Control Measures of the Clean Air Plan are not applicable to the proposed project.

Waste Management Control Measures. The Waste Management Control Measures focus on reducing or capturing methane emissions from landfills and composting facilities, diverting organic materials away from landfills, and increasing waste diversion rates through efforts to reduce, reuse, and recycle. The proposed project would comply with local requirements for waste management (e.g., recycling and composting services). Therefore, the proposed project would be consistent with the Waste Management Control Measures of the Clean Air Plan.

Water Control Measures. The Water Control Measures focus on reducing emissions of criteria pollutants, TACs, and GHGs by encouraging water conservation, limiting GHG emissions from publicly owned treatment works (POTW), and promoting the use of biogas recovery systems. Since these measures apply to POTWs and local government agencies (and not individual projects), the Water Control Measures are not applicable to the proposed project.

Super GHG Control Measures. The Super-GHG Control Measures are designed to facilitate the adoption of best GHG control practices and policies through the BAAQMD and local government agencies. Since these measures do not apply to individual projects, the Super-GHG Control Measures are not applicable to the proposed project.

Clean Air Plan Implementation. As discussed above, the proposed project would generally implement the applicable measures outlined in the Clean Air Plan, including Transportation Control

Measures. Therefore, the project would not disrupt or hinder implementation of a control measure from the Clean Air Plan.

Criteria Pollutant Analysis

The BAAQMD is currently designated as a nonattainment area for State and national O_3 standards and national particulate matter ambient air quality standards. The BAAQMD's nonattainment status is attributed to the region's development history. Past, present, and future development projects contribute to the region's adverse air quality impacts on a cumulative basis. By its very nature, air pollution is largely a cumulative impact. No single project is sufficient in size to, by itself, result in nonattainment of ambient air quality standards. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's contribution to the cumulative impact is considerable, then the project's impact on air quality would be considered significant.

In developing thresholds of significance for air pollutants, the BAAQMD considered the emission levels for which a project's individual emissions would be cumulatively considerable. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions. Therefore, additional analysis to assess cumulative impacts is unnecessary. The following analysis assesses the potential project-level construction- and operation-related air quality impacts.

Short-Term Construction Emissions. During construction, short-term degradation of air quality may occur due to the release of particulate emissions generated by demolition, grading, paving, building, and other activities. Emissions from construction equipment are also anticipated and would include CO, NO_x, ROG, directly emitted particulate matter ($PM_{2.5}$ and PM_{10}), and TACs such as diesel exhaust particulate matter.

Project construction activities would include demolition, site preparation, grading, building, paving, and architectural coating (painting). Construction-related effects on air quality from the proposed project would be greatest during the site preparation phase due to the disturbance of soils. If not properly controlled, these activities would temporarily generate particulate emissions. Sources of fugitive dust would include disturbed soils at the construction site. Unless properly controlled, vehicles leaving the site would deposit dirt and mud on local streets, which could be an additional source of airborne dust after it dries. PM_{10} emissions would vary from day to day, depending on the nature and magnitude of construction activity and local weather conditions. PM_{10} emissions would depend on soil moisture, silt content of soil, wind speed, and the amount of operating equipment. Larger dust particles would settle near the source, while fine particles would be dispersed over greater distances from the construction site.

Water or other soil stabilizers can be used to control dust, resulting in emission reductions of 50 percent or more. The BAAQMD has established standard measures for reducing fugitive dust emissions (PM_{10}). With the implementation of these Basic Construction Mitigation Measures, fugitive dust emissions from construction activities would not result in adverse air quality impacts.

In addition to dust-related PM_{10} emissions, heavy trucks and construction equipment powered by gasoline and diesel engines would generate CO, SO_2, NO_x, ROG, and some soot particulate ($PM_{2.5}$ and PM_{10}) in exhaust emissions. If construction activities were to increase traffic congestion in the area, CO and other emissions from traffic would increase slightly while those vehicles idle in traffic. These emissions would be temporary in nature and limited to the immediate area surrounding the construction site.

As discussed above, CalEEMod was used to calculate emissions from on-site construction equipment and emissions from worker and vehicle trips to the site. Construction-related emissions are presented in Table A, below.

Table A: Project Construction Emissions in Pounds Per Day

Project Construction	ROG	NO_X	Exhaust PM_{10}	Fugitive Dust PM_{10}	Exhaust $PM_{2.5}$	Fugitive Dust $PM_{2.5}$
2025	0.2	4.9	<0.1	0.5	<0.1	0.2
2026	0.6	14.4	0.1	0.8	0.1	0.2
2027	4.7	10.6	0.1	0.4	0.1	0.1
Maximum Average Daily Emissions	**4.7**	**14.4**	**0.1**	**0.8**	**0.1**	**0.2**
BAAQMD Thresholds	54.0	54.0	82.0	BMP	54.0	BMP
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Compiled by LSA (September 2024).
BAAQMD = Bay Area Air Quality Management District
BMP = best management practices
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter 2.5 microns or less in diameter
PM_{10} = particulate matter 10 microns or less in diameter
ROG = reactive organic gases

As shown in Table A, construction emissions associated with the project would not exceed the BAAQMD's thresholds for ROG, NO_x, CO, exhaust PM_{10}, and exhaust $PM_{2.5}$ emissions. In addition, the BAAQMD requires the implementation of Basic Construction Mitigation Measures to reduce construction fugitive dust impacts to a less-than-significant level. With implementation of the BAAQMD's Basic Construction Mitigation Measures, construction emissions associated with the project would not exceed the significance criteria for ROG, NO_x, PM_{10}, or $PM_{2.5}$ emissions. Therefore, construction of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable federal or State AAQS.

Long-Term Operational Emissions. Long-term air pollutant emission impacts are those associated with mobile sources (e.g., vehicle trips), energy sources (e.g., natural gas), and area sources (e.g., architectural coatings and the use of landscape maintenance equipment) related to the proposed project.

PM_{10} emissions result from running exhaust, tire and brake wear, and the entrainment of dust into the atmosphere from vehicles traveling on paved roadways. Entrainment of PM_{10} occurs when vehicle tires pulverize small rocks and pavement, and the vehicle wakes generate airborne dust. The

contribution of tire and brake wear is small compared to the other PM emission processes. Gasoline-powered engines have small rates of particulate matter emissions compared with diesel-powered vehicles. As discussed above, the proposed project would generate a net increase of 24 daily trips, which was included in this analysis.

Energy source emissions result from activities in buildings for which natural gas is used. The quantity of emissions is the product of usage intensity (i.e., the amount of natural gas). As discussed above, the proposed project would be all-electric and would not include natural gas. Therefore, the proposed project would not generate energy-source emissions.

Area source emissions associated with the project would include emissions from the use of landscaping equipment.

Emission estimates for operation of the project were calculated using CalEEMod. The primary emissions associated with the project are regional in nature, meaning that air pollutants are rapidly dispersed on release or, in the case of vehicle emissions associated with the project, emissions are released in other areas of the Air Basin. The daily and annual emissions associated with project operational trip generation, energy, and area sources are identified in Table B for ROG, NO_x, PM_{10}, and $PM_{2.5}$.

Table B: Project Operational Emissions

	ROG	NO_x	PM_{10}	$PM_{2.5}$
Pounds per Day				
Mobile Source Emissions	0.1	0.1	0.2	0.1
Area Source Emissions	3.2	<0.1	<0.1	<0.1
Energy Source Emissions	0.0	0.0	0.0	0.0
Total Emissions	**3.3**	**0.1**	**0.2**	**0.1**
BAAQMD Thresholds	54.0	54.0	82.0	54.0
Exceeds Threshold?	**No**	**No**	**No**	**No**
Tons per Year				
Mobile Source Emissions	<0.1	<0.1	<0.1	<0.1
Area Source Emissions	0.6	<0.1	<0.1	<0.1
Energy Source Emissions	0.0	0.0	0.0	0.0
Total Emissions	**0.6**	**<0.1**	**<0.1**	**<0.1**
BAAQMD Thresholds	10.0	10.0	15.0	10.0
Exceeds Threshold?	**No**	**No**	**No**	**No**

Source: Compiled by LSA (September 2024).
BAAQMD = Bay Area Air Quality Management District
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter 2.5 microns or less in diameter
PM_{10} = particulate matter 10 microns or less in diameter
ROG = reactive organic gases

The results shown in Table B indicate the project would not exceed the significance criteria for daily or annual ROG, NO_x, PM_{10}, and $PM_{2.5}$ emissions; therefore, operation of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable federal or State AAQS.

Localized CO Impacts. Emissions and ambient concentrations of CO have decreased dramatically in the Bay Area with the introduction of the catalytic converter in 1975. No exceedances of the State or federal CO standards have been recorded at Bay Area monitoring stations since 1991. The BAAQMD's 2022 CEQA Guidelines include recommended methodologies for quantifying concentrations of localized CO levels for proposed transportation projects. A screening level analysis using guidance from the BAAQMD CEQA Guidelines was performed to determine the impacts of the project. The screening methodology provides a conservative indication of whether the implementation of a proposed project would result in significant CO emissions. According to the BAAQMD's CEQA Guidelines, a proposed project would result in a less than significant impact to localized CO concentrations if the following screening criteria are met:

- The project is consistent with an applicable congestion management program established by the county congestion management agency for designated roads or highways, and the regional transportation plan and local congestion management agency plans.

- Project traffic would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour.

- The project would not increase traffic volumes at affected intersections to more than 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, bridge underpass, natural or urban street canyon, or below-grade roadway).

Implementation of the proposed project would not conflict with the Contra Costa County Transportation Authority's Congestion Management Program. The proposed project would generate approximately 17 AM peak hour trips and would result in a decrease of 12 PM peak hour trips;[8] therefore, the project's contribution to peak-hour traffic volumes at intersections in the vicinity of the project site would be well below 44,000 vehicles per hour. Therefore, the proposed project would not result in localized CO concentrations that exceed State or federal standards.

Health Risk on Nearby Sensitive Receptors

Sensitive receptors are defined as residential uses, schools, daycare centers, nursing homes, and medical centers. Individuals particularly vulnerable to diesel particulate matter are children, whose lung tissue is still developing, and the elderly, who may have serious health problems that can be aggravated by exposure to diesel particulate matter. Exposure from diesel exhaust associated with construction activity contributes to both cancer and chronic non-cancer health risks. The proposed project is surrounded by existing industrial, commercial, and residential uses. The closest receptors to the project site are multifamily residential uses immediately west of the project site boundary.

A construction HRA, which evaluates construction-period health risk to off-site receptors, was performed for the proposed project, and the analysis is presented below. Table C, below, identifies the results of the analysis assuming the use of Tier 2 construction equipment equipped with Level 3

[8] LSA. 2024. op. cit.

DPF, as proposed by the project, at the maximally exposed individual (MEI), which is the nearest sensitive receptor. Model snapshots of the sources and results are shown in Attachment B.

Table C: Inhalation Health Risks from Project Construction to Off-Site Receptors

	Carcinogenic Inhalation Health Risk in 1 Million	Chronic Inhalation Hazard Index	Acute Inhalation Hazard Index	Annual $PM_{2.5}$ Concentration ($\mu g/m^3$)
Maximally Exposed Individual	7.1	0.007	0.000	0.035
Threshold	**10.0**	**1.0**	**1.0**	**0.3**
Exceeds Threshold?	**No**	**No**	**No**	**No**

Source: Compiled by LSA (September 2024).
$\mu g/m^3$ = micrograms per cubic meter
$PM_{2.5}$ = particulate matter less than 2.5 microns in size

As shown in Table C, the risk associated with project construction at the MEI would be 7.1 in 1 million, which would not exceed the BAAQMD cancer risk threshold of 10 in 1 million. The total chronic hazard index would be 0.007, which is below the threshold of 1.0. In addition, the total acute hazard index would be nominal (0.0), which would also not exceed the threshold of 1.0. The results of the analysis indicate that the total $PM_{2.5}$ concentration would be 0.035 micrograms per cubic meter ($\mu g/m^3$), which would also not exceed the BAAQMD significance threshold of 0.3 $\mu g/m^3$. Once the project is constructed, the project would not be a source of substantial pollutant emissions. Therefore, sensitive receptors are not expected to be exposed to substantial pollutant concentrations during project construction and operation.

Objectionable Odors

During construction, the various diesel-powered vehicles and equipment in use on site would create localized odors. These odors would be temporary and are not likely to be noticeable for extended periods of time beyond the project site. Additionally, the proposed uses that would be developed within the project site are not expected to produce any offensive odors that would result in frequent odor complaints.

Greenhouse Gas Emissions

Generate Greenhouse Gas Emissions

As discussed above, a project would have a less than significant impact related to GHG emissions if it would include the project design elements related to natural gas, energy, VMT, and electric vehicles or if it would be consistent with a local GHG reduction strategy that meets the criteria under *State CEQA Guidelines* Section 15183.5(b). The City's EAP does not meet these requirements. Therefore, this section evaluates the proposed project's consistency with the BAAQMD's project design elements.

Natural Gas Usage. According to the BAAQMD, a less than significant GHG impact would occur if the project does not include natural gas appliances or natural gas plumbing. As discussed in the Project Description, the proposed project would be all electric. Since the proposed project would not include natural gas, the proposed project would be consistent with this design element.

Energy Usage. The project must not result in any wasteful, inefficient, or unnecessary energy usage as determined by the analysis required under Section 21100(b)(3) and Section 15126.2(b) of the *State CEQA Guidelines*. Energy use consumed by the proposed project would be associated with electricity consumption associated with the project. Energy consumption was estimated for the project using default energy intensities by land use type in the CalEEMod output, which is included in Attachment A.

Based on CalEEMod, the estimated potential increased electricity demand associated with the proposed project is 643,952 kilowatt-hours (kWh) per year. Total electricity consumption in Contra Costa County in 2022 was 8,337.8 gigawatt-hours or 8,337,835,566 kWh. Therefore, operation of the proposed project would increase the annual electricity consumption in Contra Costa County by less than 0.0001 percent.

In addition, the all-electric building design would result in decreasing emissions as California's grid becomes cleaner, and once the grid consists of 100 percent renewable generation sources, the building would have zero operational emissions associated with electricity usage. In addition to the all-electric design, the proposed project would include rooftop solar and would be constructed to current California Energy Code and CALGreen standards, which would require energy-saving building features and help to reduce energy consumption. As such, based on this analysis, as required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the *State CEQA Guidelines*, the proposed project would not result in the wasteful, inefficient, or unnecessary consumption of fuel or energy and would incorporate renewable energy and energy efficiency measures into the building design, equipment use, and transportation. As such, the proposed project would be consistent with this design element.

Vehicle Miles Traveled. To meet the BAAQMD's VMT threshold, the project must achieve a reduction in project-generated VMT below the regional average consistent with the current version of the California Climate Change Scoping Plan or meet a locally adopted SB 743 VMT target, reflecting the recommendations provided in the Governor's Office of Planning and Research's 2018 *Technical Advisory on Evaluating Transportation Impacts in CEQA*. Based on the project's TIA[9], the existing uses generate approximately 494 average daily trips and the proposed project would generate approximately 518 average daily trips. As such, the proposed project would generate a net increase of 24 average daily trips. Due to the minimal increase in average daily trips, it is assumed that the proposed project would result in a less than significant impact related to VMT. As such, the proposed project would be consistent with this design element.

Electric Vehicle Requirements. This criterion requires that the project achieve compliance with off-street electric vehicle requirements in the most recently adopted version of the CALGreen Tier 2 measures. The current CALGreen Tier 2 requires that a minimum of 10 percent of the parking spaces provide electric vehicle (EV) charging. As identified in the Project Description, the proposed project would provide EV charging as required by applicable codes, including the CALGreen Tier 2 requirements. As such, the proposed project would be consistent with this criterion.

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9 LSA, 2024. op. cit.

As discussed above, the proposed project would be consistent with the BAAQMD's project design elements related to natural gas, energy, VMT, and EVs. Therefore, the proposed project would be consistent with the BAAQMD's GHG emission thresholds. As such, the proposed project would not result in the generation of GHG emissions that would have a significant impact on the environment.

Consistency with Greenhouse Gas Reduction Plans

As discussed above, the City adopted its EAP[10] in November 2006 to guide and help the City achieve its sustainable goals by developing criteria for evaluating long-term impacts of the City's decisions. The EAP is a policy document that includes goals and associated recommended programs, enabling the City to maintain control while implementing State mandates to lower GHG emissions and monitor other environmental factors. The plan includes goals and policies in the following categories: resource conservation, community health, transportation, and open space, parks and landscape. As discussed above, the following goals and policies are applicable to the proposed project.

- Solid Waste Goal 1. Increase community waste reduction, recycling, and composting to 75 percent of yearly solid waste generation by 2025.

- Energy Goal 1. Community Energy Use: Reduce community energy use from 2015 by 5 percent by 202, 10 percent by 2025, 15 percent by 2030, and transition to 75 percent renewable energy by 2025.

- Transportation Goal 1. Reduce community-wide GHG emissions caused by transportation to the maximum extent practicable as directed by the council.

The proposed project would be consistent with the EAP Solid Waste Goal 1, as the proposed project would be consistent with current local and State standards related to increased diversion and reduction of waste. In addition, the proposed project would be consistent with the EAP Energy Goal 1 as the proposed project would include rooftop solar, would comply with the latest California Energy Code and CALGreen standards, and would replace older buildings that were built with less efficient standard codes, improving the overall efficiency of the project site. In addition, the proposed project would be consistent with the EAP Transportation Goal, 1 as the proposed project would result in a net decrease in vehicle trips. As such, the proposed project would be consistent with applicable EAP goals.

In addition, the proposed project was analyzed for consistency with the goals of 2022 Scoping Plan, Executive Order B-30-15, SB 32, and AB 197.

Executive Order B-30-15 added the immediate target of reducing GHG emissions to 40 percent below 1990 levels by 2030. CARB released a second update to the Scoping Plan, the 2017 Scoping Plan,[11] to reflect the 2030 target set by Executive Order B-30-15 and codified by SB 32. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions

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10 Lafayette, City of. 2006. *City of Lafayette Environmental Action Plan*. November.

11 California Air Resources Board. 2017. *California's 2017 Climate Change Scoping Plan*. November.

target of at least 40 percent below 1990 levels by 2030 contained in Executive Order B-30-15. SB 32 builds on AB 32 and keeps the State on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels. The companion bill to SB 32, AB 197, provides additional direction to the CARB related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 intended to provide easier public access to air emissions data that are collected by CARB was posted in December 2016.

The 2022 Scoping Plan assesses progress toward the statutory 2030 target while laying out a path to achieving carbon neutrality no later than 2045. The 2022 Scoping Plan focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others, and is designed to meet the State's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities.

The 2022 Scoping Plan focuses on building clean energy production and distribution infrastructure for a carbon-neutral future, including transitioning existing energy production and transmission infrastructure to produce zero-carbon electricity and hydrogen, and utilizing biogas resulting from wildfire management or landfill and dairy operations, among other substitutes. The 2022 Scoping Plan states that in almost all sectors, electrification will play an important role. The 2022 Scoping Plan evaluates clean energy and technology options and the transition away from fossil fuels, including adding four times the solar and wind capacity by 2045 and about 1,700 times the amount of current hydrogen supply. As discussed in the 2022 Scoping Plan, EO N-79-20 requires that all new passenger vehicles sold in California will be zero-emission by 2035, and all other fleets will have transitioned to zero-emission as fully possible by 2045, which will reduce the percentage of fossil fuel combustion vehicles.

As identified above, the 2022 Scoping Plan contains GHG reduction measures that work towards reducing GHG emissions, consistent with the targets set by Executive Order B-30-15 and codified by SB 32 and AB 197. The measures applicable to the proposed project include energy efficiency measures, water conservation and efficiency measures, and transportation and motor vehicle measures, as discussed below.

Energy efficient measures are intended to maximize energy efficiency building and appliance standards, pursue additional efficiency efforts, including new technologies and new policy and implementation mechanisms, and pursue comparable investment in energy efficiency from all retail providers of electricity in California. In addition, these measures are designed to expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings. The proposed project would include rooftop solar and would be required to comply with the latest California Energy Code and CALGreen standards, regarding energy conservation and green building standards. In addition, as discussed above, the proposed project would replace older buildings that were built with less efficient standard codes, improving the overall efficiency of the project site. Further, the proposed project would be all-electric and would not include natural gas. The elimination of natural gas in new development would help projects implement their "fair share" of achieving long-term 2045 carbon neutrality consistent State goals. As such, if a project does not utilize natural gas, a lead agency can conclude that it would be consistent with achieving the 2045

neutrality goal and will not have a cumulative considerable impact on climate change.[12] Therefore, the proposed project would comply with applicable energy measures.

Water conservation and efficiency measures are intended to continue efficiency programs and use cleaner energy sources to move and treat water. Increasing the efficiency of water transport and reducing water use would reduce GHG emissions. As noted above, the project would be required to comply with the latest CALGreen standards, which include a variety of different measures, including reduction of wastewater and water use. In addition, the proposed project would be required to comply with the California Model Water Efficient Landscape Ordinance. Therefore, the proposed project would not conflict with any of the water conservation and efficiency measures.

The goal of transportation and motor vehicle measures is to develop regional GHG emissions reduction targets for passenger vehicles. Specific regional emission targets for transportation emissions would not directly apply to the proposed project. The second phase of Pavley standards will reduce GHG emissions from new cars by 34 percent from 2016 levels by 2025, resulting in a 3 percent decrease in average vehicle emissions for all vehicles by 2020. Vehicles traveling to the project site would comply with the Pavley II (LEV III) Advanced Clean Cars Program. Therefore, the proposed project would not conflict with the identified transportation and motor vehicle measures.

Therefore, the proposed project would comply with existing State regulations adopted to achieve the overall GHG emissions reduction goals identified in the 2022 Scoping Plan, Executive Order B-30-15, SB 32, and AB 197 and would be consistent with applicable plans and programs designed to reduce GHG emissions. Therefore, the proposed project would not conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs.

CONCLUSION

Based on the analysis presented above, construction of the proposed project would not result in the generation of criteria air pollutants that would exceed BAAQMD thresholds of significance. Operational emissions associated with the proposed project would also not exceed BAAQMD established significance thresholds. The proposed project is not expected to produce significant emissions that would affect nearby sensitive receptors. The proposed project would also not result in objectionable odors affecting a substantial number of people. In addition, the project would not result in the emission of substantial GHG emissions. Additionally, the project would not conflict with the State's GHG emissions reductions objectives embodied in the 2022 Scoping Plan. Therefore, the proposed project's incremental contribution to cumulative GHG emissions would not be cumulatively considerable.

Attachments: A: CalEEMod Output Sheets
B: HRA Model Snapshots

[12] Bay Area Air Quality Management District (BAAQMD). 2023. *Air Quality Guidelines Appendix A: Thresholds of Significance Justification.* Website: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/appendix-a-thresholds-of-significance-justification_final-pdf (accessed September 2024).

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5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Oak Hill Road Condominium Project
Construction Start Date	10/6/2025
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.60
Precipitation (days)	43.0
Location	1001 Oak Hill Rd, Lafayette, CA 94549, USA
County	Contra Costa
City	Lafayette
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1583
EDFZ	1
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.26

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Condo/Townhouse	90.0	Dwelling Unit	5.63	104,799	18,641	—	260	—

Strip Mall	2.00	1000sqft	0.05	2,000	0.00	—	—	—
Enclosed Parking with Elevator	164	Space	1.48	65,600	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-6	Use Diesel Particulate Filters

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.96	19.8	18.3	0.03	0.70	0.91	1.61	0.65	0.22	0.87	—	3,750	3,750	0.14	0.13	3,796
Mit.	0.96	19.8	18.3	0.03	0.11	0.91	1.03	0.10	0.22	0.32	—	3,750	3,750	0.14	0.13	3,796
% Reduced	—	—	—	—	84%	—	36%	84%	—	63%	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	43.8	39.9	28.9	0.05	1.12	7.81	8.93	1.02	3.97	4.99	—	5,436	5,436	0.22	0.19	5,457
Mit.	43.8	39.9	28.9	0.05	0.17	7.81	7.98	0.15	3.97	4.13	—	5,436	5,436	0.22	0.19	5,457
% Reduced	—	—	—	—	85%	—	11%	85%	—	17%	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.69	14.4	12.6	0.02	0.50	0.76	1.26	0.46	0.22	0.69	—	2,644	2,644	0.11	0.10	2,677

Mit.	4.69	14.4	12.6	0.02	0.08	0.76	0.84	0.07	0.22	0.30	—	2,644	2,644	0.11	0.10	2,677
% Reduced	—	—	—	—	84%	—	33%	84%	—	57%	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.86	2.62	2.30	< 0.005	0.09	0.14	0.23	0.08	0.04	0.13	—	438	438	0.02	0.02	443
Mit.	0.86	2.62	2.30	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	—	438	438	0.02	0.02	443
% Reduced	—	—	—	—	84%	—	33%	84%	—	57%	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.96	19.8	18.3	0.03	0.70	0.91	1.61	0.65	0.22	0.87	—	3,750	3,750	0.14	0.13	3,796
2027	0.92	19.7	18.0	0.03	0.70	0.91	1.61	0.65	0.22	0.87	—	3,723	3,723	0.14	0.13	3,770
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.13	39.9	28.9	0.05	1.12	7.81	8.93	1.02	3.97	4.99	—	5,436	5,436	0.22	0.19	5,457
2026	0.91	24.5	18.9	0.03	0.77	3.15	3.93	0.71	1.44	2.14	—	4,081	4,081	0.20	0.19	4,143
2027	43.8	19.8	17.5	0.03	0.70	0.91	1.61	0.65	0.22	0.87	—	3,657	3,657	0.15	0.13	3,700
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.15	4.88	3.62	0.01	0.15	0.46	0.61	0.13	0.22	0.35	—	721	721	0.03	0.01	726
2026	0.64	14.4	12.6	0.02	0.50	0.76	1.26	0.46	0.22	0.69	—	2,644	2,644	0.11	0.10	2,677
2027	4.69	10.6	9.36	0.01	0.39	0.44	0.83	0.36	0.11	0.47	—	1,897	1,897	0.07	0.06	1,918
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.03	0.89	0.66	< 0.005	0.03	0.08	0.11	0.02	0.04	0.06	—	119	119	0.01	< 0.005	120

2026	0.12	2.62	2.30	< 0.005	0.09	0.14	0.23	0.08	0.04	0.13	—	438	438	0.02	0.02	443
2027	0.86	1.94	1.71	< 0.005	0.07	0.08	0.15	0.07	0.02	0.09	—	314	314	0.01	0.01	318

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.96	19.8	18.3	0.03	0.11	0.91	1.03	0.10	0.22	0.32	—	3,750	3,750	0.14	0.13	3,796
2027	0.92	19.7	18.0	0.03	0.11	0.91	1.03	0.10	0.22	0.32	—	3,723	3,723	0.14	0.13	3,770
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.13	39.9	28.9	0.05	0.17	7.81	7.98	0.15	3.97	4.13	—	5,436	5,436	0.22	0.19	5,457
2026	0.91	24.5	18.9	0.03	0.13	3.15	3.29	0.12	1.44	1.55	—	4,081	4,081	0.20	0.19	4,143
2027	43.8	19.8	17.5	0.03	0.11	0.91	1.03	0.10	0.22	0.32	—	3,657	3,657	0.15	0.13	3,700
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.15	4.88	3.62	0.01	0.02	0.46	0.48	0.02	0.22	0.24	—	721	721	0.03	0.01	726
2026	0.64	14.4	12.6	0.02	0.08	0.76	0.84	0.07	0.22	0.30	—	2,644	2,644	0.11	0.10	2,677
2027	4.69	10.6	9.36	0.01	0.06	0.44	0.50	0.06	0.11	0.16	—	1,897	1,897	0.07	0.06	1,918
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.03	0.89	0.66	< 0.005	< 0.005	0.08	0.09	< 0.005	0.04	0.04	—	119	119	0.01	< 0.005	120
2026	0.12	2.62	2.30	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	—	438	438	0.02	0.02	443
2027	0.86	1.94	1.71	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	—	314	314	0.01	0.01	318

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.88	0.27	10.2	0.01	0.01	0.50	0.51	0.01	0.13	0.14	43.5	947	991	4.45	0.04	1,118
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.94	0.23	1.97	0.01	< 0.005	0.50	0.50	< 0.005	0.13	0.13	43.5	884	928	4.45	0.05	1,053
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.27	0.13	4.81	< 0.005	0.01	0.21	0.21	< 0.005	0.05	0.06	43.5	608	652	4.44	0.03	774
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.60	0.02	0.88	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	7.20	101	108	0.73	0.01	128

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.24	0.19	2.17	0.01	< 0.005	0.50	0.50	< 0.005	0.13	0.13	—	549	549	0.02	0.02	557
Area	3.64	0.07	8.05	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	25.7	25.7	< 0.005	< 0.005	25.8
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	360	360	0.06	0.01	363
Water	—	—	—	—	—	—	—	—	—	—	6.56	13.1	19.7	0.67	0.02	41.4
Waste	—	—	—	—	—	—	—	—	—	—	37.0	0.00	37.0	3.69	0.00	129
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.76
Total	3.88	0.27	10.2	0.01	0.01	0.50	0.51	0.01	0.13	0.14	43.5	947	991	4.45	0.04	1,118

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.23	0.23	1.97	0.01	< 0.005	0.50	0.50	< 0.005	0.13	0.13	—	511	511	0.02	0.02	518
Area	2.71	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	360	360	0.06	0.01	363
Water	—	—	—	—	—	—	—	—	—	—	6.56	13.1	19.7	0.67	0.02	41.4
Waste	—	—	—	—	—	—	—	—	—	—	37.0	0.00	37.0	3.69	0.00	129
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.76
Total	2.94	0.23	1.97	0.01	< 0.005	0.50	0.50	< 0.005	0.13	0.13	43.5	884	928	4.45	0.05	1,053
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.10	0.09	0.84	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	223	223	0.01	0.01	226
Area	3.17	0.04	3.97	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	12.7	12.7	< 0.005	< 0.005	12.7
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	360	360	0.06	0.01	363
Water	—	—	—	—	—	—	—	—	—	—	6.56	13.1	19.7	0.67	0.02	41.4
Waste	—	—	—	—	—	—	—	—	—	—	37.0	0.00	37.0	3.69	0.00	129
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.76
Total	3.27	0.13	4.81	< 0.005	0.01	0.21	0.21	< 0.005	0.05	0.06	43.5	608	652	4.44	0.03	774
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.02	0.02	0.15	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	36.9	36.9	< 0.005	< 0.005	37.4
Area	0.58	0.01	0.72	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	2.10	2.10	< 0.005	< 0.005	2.11
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	59.6	59.6	0.01	< 0.005	60.2
Water	—	—	—	—	—	—	—	—	—	—	1.09	2.18	3.26	0.11	< 0.005	6.86
Waste	—	—	—	—	—	—	—	—	—	—	6.12	0.00	6.12	0.61	0.00	21.4
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13
Total	0.60	0.02	0.88	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	7.20	101	108	0.73	0.01	128

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.24	0.19	2.17	0.01	< 0.005	0.50	0.50	< 0.005	0.13	0.13	—	549	549	0.02	0.02	557
Area	3.64	0.07	8.05	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	25.7	25.7	< 0.005	< 0.005	25.8
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	360	360	0.06	0.01	363
Water	—	—	—	—	—	—	—	—	—	—	6.56	13.1	19.7	0.67	0.02	41.4
Waste	—	—	—	—	—	—	—	—	—	—	37.0	0.00	37.0	3.69	0.00	129
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.76
Total	3.88	0.27	10.2	0.01	0.01	0.50	0.51	0.01	0.13	0.14	43.5	947	991	4.45	0.04	1,118
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.23	0.23	1.97	0.01	< 0.005	0.50	0.50	< 0.005	0.13	0.13	—	511	511	0.02	0.02	518
Area	2.71	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	360	360	0.06	0.01	363
Water	—	—	—	—	—	—	—	—	—	—	6.56	13.1	19.7	0.67	0.02	41.4
Waste	—	—	—	—	—	—	—	—	—	—	37.0	0.00	37.0	3.69	0.00	129
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.76
Total	2.94	0.23	1.97	0.01	< 0.005	0.50	0.50	< 0.005	0.13	0.13	43.5	884	928	4.45	0.05	1,053
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.10	0.09	0.84	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	223	223	0.01	0.01	226
Area	3.17	0.04	3.97	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	12.7	12.7	< 0.005	< 0.005	12.7
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	360	360	0.06	0.01	363
Water	—	—	—	—	—	—	—	—	—	—	6.56	13.1	19.7	0.67	0.02	41.4
Waste	—	—	—	—	—	—	—	—	—	—	37.0	0.00	37.0	3.69	0.00	129
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.76

Total	3.27	0.13	4.81	< 0.005	0.01	0.21	0.21	< 0.005	0.05	0.06	43.5	608	652	4.44	0.03	774
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.02	0.02	0.15	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	36.9	36.9	< 0.005	< 0.005	37.4
Area	0.58	0.01	0.72	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	2.10	2.10	< 0.005	< 0.005	2.11
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	59.6	59.6	0.01	< 0.005	60.2
Water	—	—	—	—	—	—	—	—	—	—	1.09	2.18	3.26	0.11	< 0.005	6.86
Waste	—	—	—	—	—	—	—	—	—	—	6.12	0.00	6.12	0.61	0.00	21.4
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13
Total	0.60	0.02	0.88	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	7.20	101	108	0.73	0.01	128

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	24.9	18.2	0.03	0.79	—	0.79	0.71	—	0.71	—	3,425	3,425	0.14	0.03	3,437
Demolition	—	—	—	—	—	0.17	0.17	—	0.03	0.03	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.07	2.39	1.74	< 0.005	0.08	—	0.08	0.07	—	0.07	—	328	328	0.01	< 0.005	330
Demolition	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.44	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	54.4	54.4	< 0.005	< 0.005	54.6
Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.53	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	121	121	< 0.005	0.01	123
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.29	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	215	215	0.02	0.03	225
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.7	11.7	< 0.005	< 0.005	11.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.6	20.6	< 0.005	< 0.005	21.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.94	1.94	< 0.005	< 0.005	1.97
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.41	3.41	< 0.005	< 0.005	3.58

3.2. Demolition (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	24.9	18.2	0.03	0.12	—	0.12	0.11	—	0.11	—	3,425	3,425	0.14	0.03	3,437
Demolition	—	—	—	—	—	0.17	0.17	—	0.03	0.03	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	2.39	1.74	< 0.005	0.01	—	0.01	0.01	—	0.01	—	328	328	0.01	< 0.005	330
Demolition	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.44	0.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	54.4	54.4	< 0.005	< 0.005	54.6
Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.53	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	121	121	< 0.005	0.01	123
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.29	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	215	215	0.02	0.03	225
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.7	11.7	< 0.005	< 0.005	11.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.6	20.6	< 0.005	< 0.005	21.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.94	1.94	< 0.005	< 0.005	1.97
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.41	3.41	< 0.005	< 0.005	3.58

3.3. Site Preparation (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	39.9	28.3	0.05	1.12	—	1.12	1.02	—	1.02	—	5,295	5,295	0.21	0.04	5,314

Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.64	1.16	< 0.005	0.05	—	0.05	0.04	—	0.04	—	218	218	0.01	< 0.005	218
Dust From Material Movement	—	—	—	—	—	0.32	0.32	—	0.16	0.16	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.30	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	36.0	36.0	< 0.005	< 0.005	36.2
Dust From Material Movement	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.62	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	141	141	< 0.005	0.01	143
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.86	5.86	< 0.005	< 0.005	5.95
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.97	0.97	< 0.005	< 0.005	0.99
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	39.9	28.3	0.05	0.17	—	0.17	0.15	—	0.15	—	5,295	5,295	0.21	0.04	5,314
Dust From Material Movement	—	—	—	—	—	7.67	7.67	—	3.94	3.94	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.64	1.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	218	218	0.01	< 0.005	218

Dust From Material Movement	—	—	—	—	—	0.32	0.32	—	0.16	0.16	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.30	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.0	36.0	< 0.005	< 0.005	36.2
Dust From Material Movement	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.62	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	141	141	< 0.005	0.01	143
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.86	5.86	< 0.005	< 0.005	5.95
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.97	0.97	< 0.005	< 0.005	0.99
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.73	23.2	17.8	0.03	0.75	—	0.75	0.69	—	0.69	—	2,959	2,959	0.12	0.02	2,970
Dust From Material Movement	—	—	—	—	—	2.77	2.77	—	1.34	1.34	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.77	0.59	< 0.005	0.03	—	0.03	0.02	—	0.02	—	98.5	98.5	< 0.005	< 0.005	98.8
Dust From Material Movement	—	—	—	—	—	0.09	0.09	—	0.04	0.04	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.14	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.3	16.3	< 0.005	< 0.005	16.4
Dust From Material Movement	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.53	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	121	121	< 0.005	0.01	123
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.36	0.63	0.01	0.02	0.26	0.28	0.01	0.07	0.09	—	1,023	1,023	0.08	0.16	1,073
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.07	4.07	< 0.005	< 0.005	4.13
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.0	34.0	< 0.005	0.01	35.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	0.68
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.63	5.63	< 0.005	< 0.005	5.91

3.6. Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.73	23.2	17.8	0.03	0.11	—	0.11	0.10	—	0.10	—	2,959	2,959	0.12	0.02	2,970
Dust From Material Movement	—	—	—	—	—	2.77	2.77	—	1.34	1.34	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.77	0.59	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	98.5	98.5	< 0.005	< 0.005	98.8
Dust From Material Movement	—	—	—	—	—	0.09	0.09	—	0.04	0.04	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.14	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.3	16.3	< 0.005	< 0.005	16.4
Dust From Material Movement	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.53	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	121	121	< 0.005	0.01	123
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Hauling	0.02	1.36	0.63	0.01	0.02	0.26	0.28	0.01	0.07	0.09	—	1,023	1,023	0.08	0.16	1,073
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.07	4.07	< 0.005	< 0.005	4.13
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.0	34.0	< 0.005	0.01	35.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	0.68
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.63	5.63	< 0.005	< 0.005	5.91

3.7. Grading (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.73	23.2	17.8	0.03	0.75	—	0.75	0.69	—	0.69	—	2,960	2,960	0.12	0.02	2,970
Dust From Material Movement	—	—	—	—	—	2.77	2.77	—	1.34	1.34	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	1.36	1.04	< 0.005	0.04	—	0.04	0.04	—	0.04	—	174	174	0.01	< 0.005	174
Dust From Material Movement	—	—	—	—	—	0.16	0.16	—	0.08	0.08	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.25	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	28.8	28.8	< 0.005	< 0.005	28.9
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.50	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	119	119	< 0.005	0.01	120
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.31	0.61	0.01	0.02	0.26	0.28	0.01	0.07	0.09	—	1,003	1,003	0.08	0.16	1,053
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.04	7.04	< 0.005	< 0.005	7.15
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	58.9	58.9	< 0.005	0.01	61.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.17	1.17	< 0.005	< 0.005	1.18

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.74	9.74	< 0.005	< 0.005	10.2

3.8. Grading (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.73	23.2	17.8	0.03	0.11	—	0.11	0.10	—	0.10	—	2,960	2,960	0.12	0.02	2,970
Dust From Material Movement	—	—	—	—	—	2.77	2.77	—	1.34	1.34	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.36	1.04	< 0.005	0.01	—	0.01	0.01	—	0.01	—	174	174	0.01	< 0.005	174
Dust From Material Movement	—	—	—	—	—	0.16	0.16	—	0.08	0.08	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.25	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	28.8	28.8	< 0.005	< 0.005	28.9

Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.50	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	119	119	< 0.005	0.01	120
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.31	0.61	0.01	0.02	0.26	0.28	0.01	0.07	0.09	—	1,003	1,003	0.08	0.16	1,053
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.04	7.04	< 0.005	< 0.005	7.15
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	58.9	58.9	< 0.005	0.01	61.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.17	1.17	< 0.005	< 0.005	1.18
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.74	9.74	< 0.005	< 0.005	10.2

3.9. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	12.3	9.32	0.02	0.45	—	0.45	0.42	—	0.42	—	1,562	1,562	0.06	0.01	1,568
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	2.24	1.70	< 0.005	0.08	—	0.08	0.08	—	0.08	—	259	259	0.01	< 0.005	260
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.20	3.65	0.00	0.00	0.77	0.77	0.00	0.18	0.18	—	804	804	0.01	0.03	816
Vendor	0.02	0.70	0.34	< 0.005	0.01	0.15	0.15	0.01	0.04	0.05	—	549	549	0.03	0.08	575
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.28	0.26	3.07	0.00	0.00	0.77	0.77	0.00	0.18	0.18	—	735	735	0.02	0.03	746
Vendor	0.02	0.74	0.35	< 0.005	0.01	0.15	0.15	0.01	0.04	0.05	—	549	549	0.03	0.08	574
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.15	1.96	0.00	0.00	0.49	0.49	0.00	0.11	0.11	—	484	484	0.01	0.02	492
Vendor	0.01	0.47	0.22	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	358	358	0.02	0.05	374
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.36	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	80.2	80.2	< 0.005	< 0.005	81.4
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	59.2	59.2	< 0.005	0.01	62.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.10	—	0.10	0.10	—	0.10	—	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.10	—	0.10	0.10	—	0.10	—	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	12.3	9.32	0.02	0.07	—	0.07	0.06	—	0.06	—	1,562	1,562	0.06	0.01	1,568
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	2.24	1.70	< 0.005	0.01	—	0.01	0.01	—	0.01	—	259	259	0.01	< 0.005	260
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.20	3.65	0.00	0.00	0.77	0.77	0.00	0.18	0.18	—	804	804	0.01	0.03	816
Vendor	0.02	0.70	0.34	< 0.005	0.01	0.15	0.15	0.01	0.04	0.05	—	549	549	0.03	0.08	575
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.26	3.07	0.00	0.00	0.77	0.77	0.00	0.18	0.18	—	735	735	0.02	0.03	746
Vendor	0.02	0.74	0.35	< 0.005	0.01	0.15	0.15	0.01	0.04	0.05	—	549	549	0.03	0.08	574
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.15	1.96	0.00	0.00	0.49	0.49	0.00	0.11	0.11	—	484	484	0.01	0.02	492
Vendor	0.01	0.47	0.22	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	358	358	0.02	0.05	374
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.36	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	80.2	80.2	< 0.005	< 0.005	81.4
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	59.2	59.2	< 0.005	0.01	62.0

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.69	—	0.69	0.64	—	0.64	—	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	8.83	6.69	0.01	0.32	—	0.32	0.30	—	0.30	—	1,121	1,121	0.05	0.01	1,125
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.61	1.22	< 0.005	0.06	—	0.06	0.05	—	0.05	—	186	186	0.01	< 0.005	186
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.20	3.42	0.00	0.00	0.77	0.77	0.00	0.18	0.18	—	789	789	0.01	0.03	801
Vendor	0.02	0.67	0.33	< 0.005	0.01	0.15	0.15	0.01	0.04	0.05	—	538	538	0.03	0.08	564
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.24	2.89	0.00	0.00	0.77	0.77	0.00	0.18	0.18	—	722	722	0.02	0.03	732
Vendor	0.02	0.71	0.34	< 0.005	0.01	0.15	0.15	0.01	0.04	0.05	—	538	538	0.03	0.08	563
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	1.32	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	341	341	0.01	0.01	346
Vendor	0.01	0.32	0.15	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	252	252	0.01	0.04	263
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.24	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	56.5	56.5	< 0.005	< 0.005	57.3
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	41.7	41.7	< 0.005	0.01	43.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.10	—	0.10	0.10	—	0.10	—	2,397	2,397	0.10	0.02	2,405

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	18.9	14.3	0.02	0.10	—	0.10	0.10	—	0.10	—	2,397	2,397	0.10	0.02	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	8.83	6.69	0.01	0.05	—	0.05	0.05	—	0.05	—	1,121	1,121	0.05	0.01	1,125
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.61	1.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	186	186	0.01	< 0.005	186
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.20	3.42	0.00	0.00	0.77	0.77	0.00	0.18	0.18	—	789	789	0.01	0.03	801
Vendor	0.02	0.67	0.33	< 0.005	0.01	0.15	0.15	0.01	0.04	0.05	—	538	538	0.03	0.08	564
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.24	2.89	0.00	0.00	0.77	0.77	0.00	0.18	0.18	—	722	722	0.02	0.03	732
Vendor	0.02	0.71	0.34	< 0.005	0.01	0.15	0.15	0.01	0.04	0.05	—	538	538	0.03	0.08	563
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	1.32	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	341	341	0.01	0.01	346
Vendor	0.01	0.32	0.15	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	252	252	0.01	0.04	263
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.24	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	56.5	56.5	< 0.005	< 0.005	57.3
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	41.7	41.7	< 0.005	0.01	43.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	13.3	10.6	0.01	0.58	—	0.58	0.54	—	0.54	—	1,511	1,511	0.06	0.01	1,516
Paving	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	13.3	10.6	0.01	0.58	—	0.58	0.54	—	0.54	—	1,511	1,511	0.06	0.01	1,516
Paving	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.05	1.28	1.02	< 0.005	0.06	—	0.06	0.05	—	0.05	—	145	145	0.01	< 0.005	145
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.23	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	24.1
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.03	0.55	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	127	127	< 0.005	< 0.005	129
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.47	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	116	116	< 0.005	0.01	118
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.3	11.3	< 0.005	< 0.005	11.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.87	1.87	< 0.005	< 0.005	1.90
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.14. Paving (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	13.3	10.6	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	1,516
Paving	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	13.3	10.6	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	1,516
Paving	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.28	1.02	< 0.005	0.01	—	0.01	0.01	—	0.01	—	145	145	0.01	< 0.005	145
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.23	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.0	24.0	< 0.005	< 0.005	24.1

Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.03	0.55	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	127	127	< 0.005	< 0.005	129
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.47	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	116	116	< 0.005	0.01	118
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.3	11.3	< 0.005	< 0.005	11.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.87	1.87	< 0.005	< 0.005	1.90
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.07	—	0.07	0.06	—	0.06	—	134	134	0.01	< 0.005	134
Architectural Coatings	43.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	12.8	12.8	< 0.005	< 0.005	12.8
Architectural Coatings	4.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.12	2.12	< 0.005	< 0.005	2.13
Architectural Coatings	0.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.58	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	144	144	< 0.005	0.01	146
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.0	14.0	< 0.005	< 0.005	14.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.32	2.32	< 0.005	< 0.005	2.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.16. Architectural Coating (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.09	0.96	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	134
Architectural Coatings	43.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.10	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.8	12.8	< 0.005	< 0.005	12.8
Architectural Coatings	4.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.12	2.12	< 0.005	< 0.005	2.13
Architectural Coatings	0.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.58	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	144	144	< 0.005	0.01	146
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.0	14.0	< 0.005	< 0.005	14.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.32	2.32	< 0.005	< 0.005	2.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.09	0.07	0.74	< 0.005	< 0.005	0.17	0.17	< 0.005	0.04	0.04	—	185	185	0.01	0.01	188
Strip Mall	0.16	0.13	1.42	< 0.005	< 0.005	0.33	0.33	< 0.005	0.08	0.09	—	364	364	0.01	0.01	369
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.24	0.19	2.17	0.01	< 0.005	0.50	0.50	< 0.005	0.13	0.13	—	549	549	0.02	0.02	557
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.08	0.08	0.68	< 0.005	< 0.005	0.17	0.17	< 0.005	0.04	0.04	—	172	172	0.01	0.01	175
Strip Mall	0.15	0.15	1.29	< 0.005	< 0.005	0.33	0.33	< 0.005	0.08	0.09	—	339	339	0.01	0.01	344
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Total	0.23	0.23	1.97	0.01	< 0.005	0.50	0.50	< 0.005	0.13	0.13	—	511	511	0.02	0.02	518
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.02	0.01	0.12	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	28.8	28.8	< 0.005	< 0.005	29.2
Strip Mall	< 0.005	< 0.005	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	8.08	8.08	< 0.005	< 0.005	8.20
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.02	0.02	0.15	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	36.9	36.9	< 0.005	< 0.005	37.4

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.09	0.07	0.74	< 0.005	< 0.005	0.17	0.17	< 0.005	0.04	0.04	—	185	185	0.01	0.01	188
Strip Mall	0.16	0.13	1.42	< 0.005	< 0.005	0.33	0.33	< 0.005	0.08	0.09	—	364	364	0.01	0.01	369
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.24	0.19	2.17	0.01	< 0.005	0.50	0.50	< 0.005	0.13	0.13	—	549	549	0.02	0.02	557
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.08	0.08	0.68	< 0.005	< 0.005	0.17	0.17	< 0.005	0.04	0.04	—	172	172	0.01	0.01	175
Strip Mall	0.15	0.15	1.29	< 0.005	< 0.005	0.33	0.33	< 0.005	0.08	0.09	—	339	339	0.01	0.01	344

Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.23	0.23	1.97	0.01	< 0.005	0.50	0.50	< 0.005	0.13	0.13	—	511	511	0.02	0.02	518
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.02	0.01	0.12	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	28.8	28.8	< 0.005	< 0.005	29.2
Strip Mall	< 0.005	< 0.005	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	8.08	8.08	< 0.005	< 0.005	8.20
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.02	0.02	0.15	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	36.9	36.9	< 0.005	< 0.005	37.4

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	215	215	0.03	< 0.005	217
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	9.55	9.55	< 0.005	< 0.005	9.65
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	135	135	0.02	< 0.005	137
Total	—	—	—	—	—	—	—	—	—	—	—	360	360	0.06	0.01	363
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/To	—	—	—	—	—	—	—	—	—	—	—	215	215	0.03	< 0.005	217
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	9.55	9.55	< 0.005	< 0.005	9.65
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	135	135	0.02	< 0.005	137
Total	—	—	—	—	—	—	—	—	—	—	—	360	360	0.06	0.01	363
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/To wnhouse	—	—	—	—	—	—	—	—	—	—	—	35.6	35.6	0.01	< 0.005	35.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.58	1.58	< 0.005	< 0.005	1.60
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	22.4	22.4	< 0.005	< 0.005	22.6
Total	—	—	—	—	—	—	—	—	—	—	—	59.6	59.6	0.01	< 0.005	60.2

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/To wnhouse	—	—	—	—	—	—	—	—	—	—	—	215	215	0.03	< 0.005	217
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	9.55	9.55	< 0.005	< 0.005	9.65
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	135	135	0.02	< 0.005	137
Total	—	—	—	—	—	—	—	—	—	—	—	360	360	0.06	0.01	363
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/To	—	—	—	—	—	—	—	—	—	—	—	215	215	0.03	< 0.005	217
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	9.55	9.55	< 0.005	< 0.005	9.65
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	135	135	0.02	< 0.005	137
Total	—	—	—	—	—	—	—	—	—	—	—	360	360	0.06	0.01	363
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/To wnhouse	—	—	—	—	—	—	—	—	—	—	—	35.6	35.6	0.01	< 0.005	35.9
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.58	1.58	< 0.005	< 0.005	1.60
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	22.4	22.4	< 0.005	< 0.005	22.6
Total	—	—	—	—	—	—	—	—	—	—	—	59.6	59.6	0.01	< 0.005	60.2

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/To wnhouse	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/To	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/To wnhouse	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/To wnhouse	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/To	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	2.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipme	0.93	0.07	8.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.7	25.7	< 0.005	< 0.005	25.8
Total	3.64	0.07	8.05	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	25.7	25.7	< 0.005	< 0.005	25.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	2.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	2.71	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.08	0.01	0.72	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.10	2.10	< 0.005	< 0.005	2.11
Total	0.58	0.01	0.72	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	2.10	2.10	< 0.005	< 0.005	2.11

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	2.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.93	0.07	8.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.7	25.7	< 0.005	< 0.005	25.8
Total	3.64	0.07	8.05	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	25.7	25.7	< 0.005	< 0.005	25.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	2.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	2.71	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipme	0.08	0.01	0.72	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.10	2.10	< 0.005	< 0.005	2.11
Total	0.58	0.01	0.72	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	2.10	2.10	< 0.005	< 0.005	2.11

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	6.28	12.6	18.9	0.65	0.02	39.6
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.28	0.54	0.82	0.03	< 0.005	1.76
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	6.56	13.1	19.7	0.67	0.02	41.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	6.28	12.6	18.9	0.65	0.02	39.6
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.28	0.54	0.82	0.03	< 0.005	1.76
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	6.56	13.1	19.7	0.67	0.02	41.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	1.04	2.09	3.13	0.11	< 0.005	6.56
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.05	0.09	0.14	< 0.005	< 0.005	0.29
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	1.09	2.18	3.26	0.11	< 0.005	6.86

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	6.28	12.6	18.9	0.65	0.02	39.6
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.28	0.54	0.82	0.03	< 0.005	1.76
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	6.56	13.1	19.7	0.67	0.02	41.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	6.28	12.6	18.9	0.65	0.02	39.6
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.28	0.54	0.82	0.03	< 0.005	1.76
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	6.56	13.1	19.7	0.67	0.02	41.4

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	1.04	2.09	3.13	0.11	< 0.005	6.56
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.05	0.09	0.14	< 0.005	< 0.005	0.29
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	1.09	2.18	3.26	0.11	< 0.005	6.86

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	35.8	0.00	35.8	3.58	0.00	125
Strip Mall	—	—	—	—	—	—	—	—	—	—	1.13	0.00	1.13	0.11	0.00	3.96
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	37.0	0.00	37.0	3.69	0.00	129
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	35.8	0.00	35.8	3.58	0.00	125
Strip Mall	—	—	—	—	—	—	—	—	—	—	1.13	0.00	1.13	0.11	0.00	3.96

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	37.0	0.00	37.0	3.69	0.00	129
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	5.93	0.00	5.93	0.59	0.00	20.8
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.19	0.00	0.19	0.02	0.00	0.66
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	6.12	0.00	6.12	0.61	0.00	21.4

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	35.8	0.00	35.8	3.58	0.00	125
Strip Mall	—	—	—	—	—	—	—	—	—	—	1.13	0.00	1.13	0.11	0.00	3.96
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	37.0	0.00	37.0	3.69	0.00	129
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	35.8	0.00	35.8	3.58	0.00	125

Strip Mall	—	—	—	—	—	—	—	—	—	—	1.13	0.00	1.13	0.11	0.00	3.96
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	37.0	0.00	37.0	3.69	0.00	129
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	5.93	0.00	5.93	0.59	0.00	20.8
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.19	0.00	0.19	0.02	0.00	0.66
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	6.12	0.00	6.12	0.61	0.00	21.4

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.75
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.76
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.75

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.76
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.75
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.76
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.75
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.76
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.12
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.13

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	10/6/2025	11/21/2025	5.00	35.0	—
Site Preparation	Site Preparation	11/24/2025	12/12/2025	5.00	15.0	—
Grading	Grading	12/15/2025	1/30/2026	5.00	35.0	—
Building Construction	Building Construction	2/2/2026	8/27/2027	5.00	410	—
Paving	Paving	8/30/2027	10/15/2027	5.00	35.0	—
Architectural Coating	Architectural Coating	10/18/2027	12/3/2027	5.00	35.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 2	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 2	3.00	8.00	36.0	0.38

Demolition	Concrete/Industrial Saws	Diesel	Tier 2	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Tier 2	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 2	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 2	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 2	1.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 2	3.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Tier 2	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 2	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 2	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 2	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Tier 2	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 2	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 2	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 2	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 2	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 2	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 2	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 2	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Tier 2	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Tier 2	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 2	4.00	8.00	84.0	0.37

Grading	Graders	Diesel	Tier 2	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 2	1.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 2	3.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Tier 2	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 2	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 2	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 2	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Tier 2	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 2	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 2	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 2	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 2	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 2	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	3.00	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT

Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	14.3	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	93.0	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	20.7	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	18.6	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	3.00	20.0	HHDT

Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	14.3	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	93.0	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	20.7	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	18.6	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	212,218	70,739	5,893	1,321	3,858

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	9,070	—
Site Preparation	—	—	22.5	0.00	—
Grading	—	4,000	35.0	0.00	—
Paving	0.00	0.00	0.00	0.00	1.48

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Condo/Townhouse	—	0%
Strip Mall	0.00	0%
Enclosed Parking with Elevator	1.48	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Condo/Townhouse	24.3	24.3	24.3	8,869	237	237	237	86,573
Strip Mall	0.00	0.00	40.9	2,131	0.00	0.00	468	24,406
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Condo/Townhouse	24.3	24.3	24.3	8,869	237	237	237	86,573
Strip Mall	0.00	0.00	40.9	2,131	0.00	0.00	468	24,406
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	90
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	90
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0

Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
212217.97499999998	70,739	5,893	1,321	3,858

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Condo/Townhouse	384,704	204	0.0330	0.0040	0.00
Strip Mall	17,090	204	0.0330	0.0040	0.00
Enclosed Parking with Elevator	242,158	204	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Condo/Townhouse	384,704	204	0.0330	0.0040	0.00
Strip Mall	17,090	204	0.0330	0.0040	0.00
Enclosed Parking with Elevator	242,158	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse	3,275,309	271,924
Strip Mall	148,145	0.00
Enclosed Parking with Elevator	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse	3,275,309	271,924
Strip Mall	148,145	0.00
Enclosed Parking with Elevator	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	66.5	—
Strip Mall	2.10	—
Enclosed Parking with Elevator	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	66.5	—
Strip Mall	2.10	—
Enclosed Parking with Elevator	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

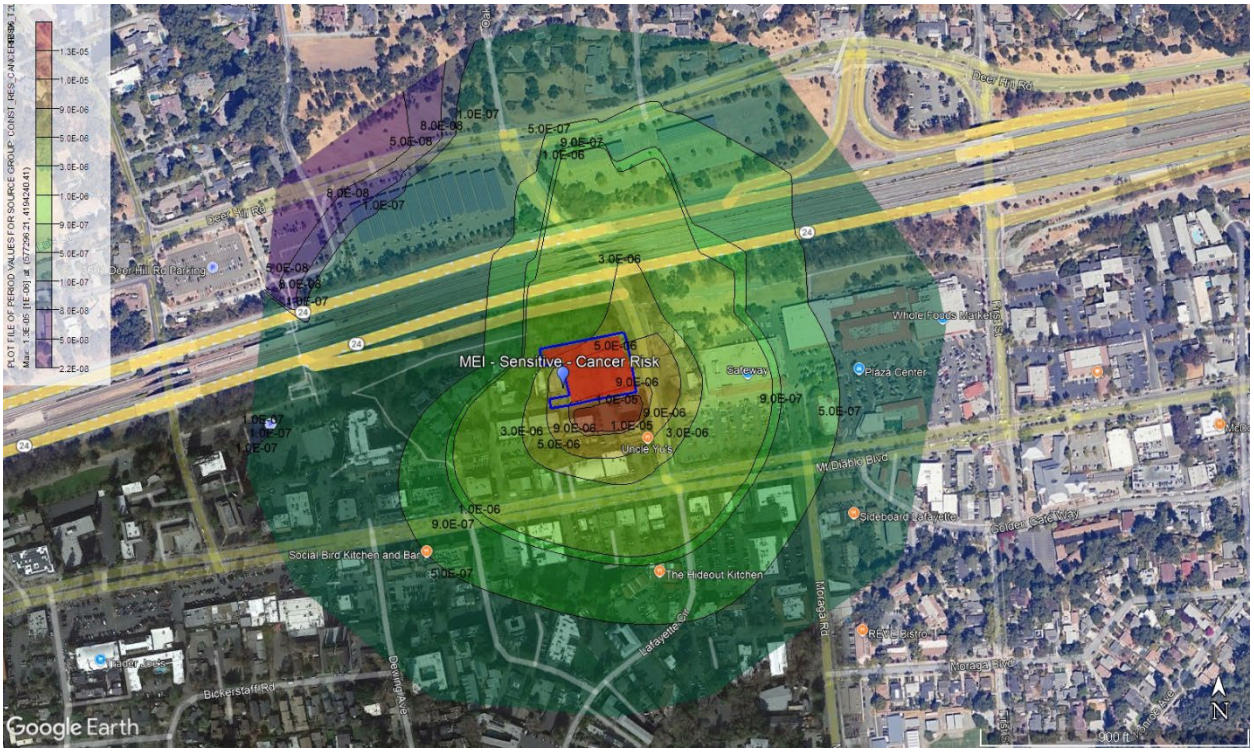
8. User Changes to Default Data

Screen	Justification

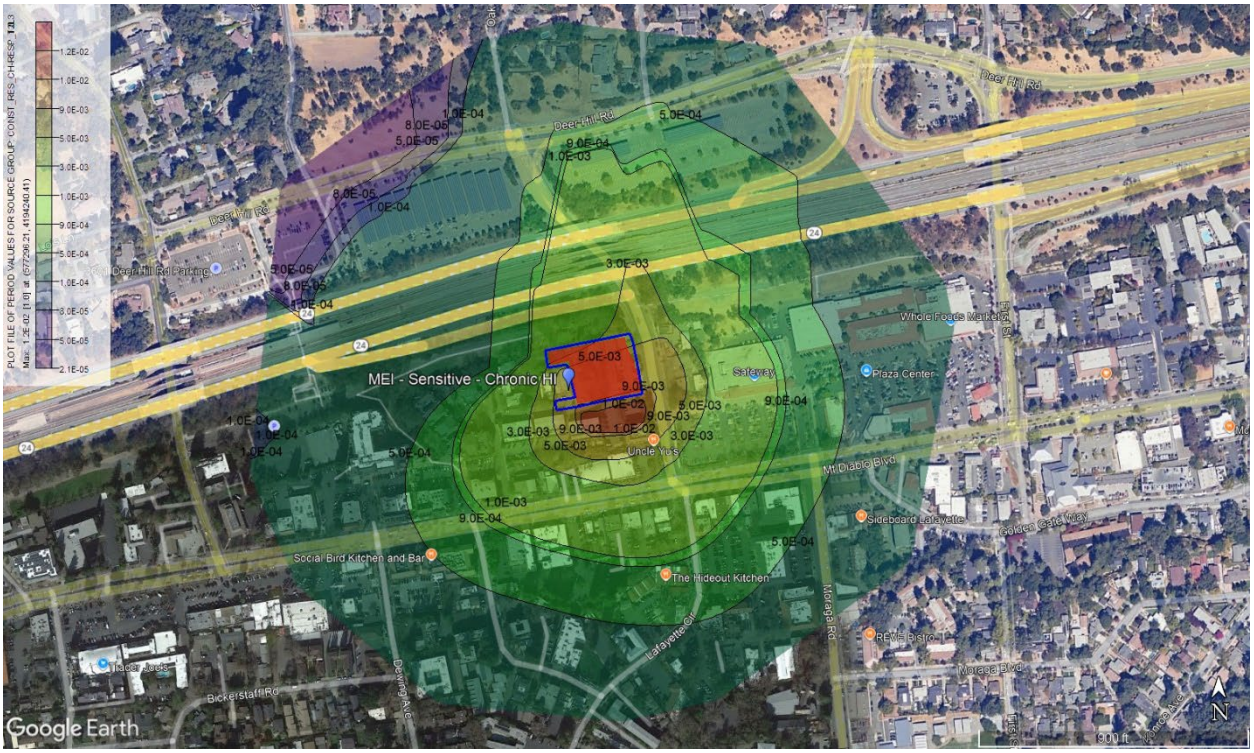
Land Use	The proposed project would construct a 172,399-gross square foot multifamily building containing 90 residential condominiums, 2,000 square feet of commercial use, and a below-grade parking garage with 164 parking spaces.
Construction: Construction Phases	Construction activities are anticipated to take place between October 2025 and December 2027. The default construction schedule was scaled to extend to December 2027.
Construction: Off-Road Equipment	Assuming default equipment list and use of Tier 2 engines with level 3 diesel particulate filters.
Operations: Vehicle Data	The proposed project is anticipated to generate a net increase of 24 daily trips.
Operations: Hearths	The proposed project does not include any type of fireplace devices in the units.
Operations: Energy Use	The proposed project would utilize electricity for all energy needs and would not include natural gas.

Sensitive Receptor Grid

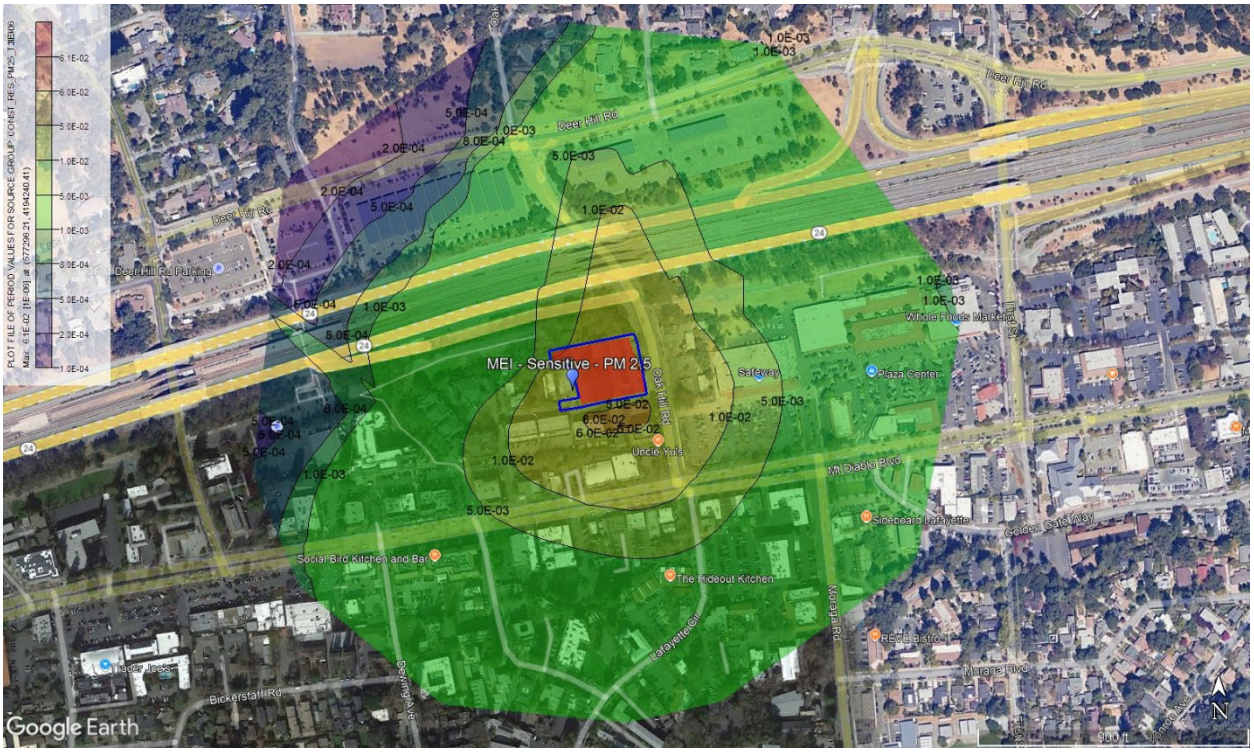
Construction Cancer Risk - Sensitive Receptor



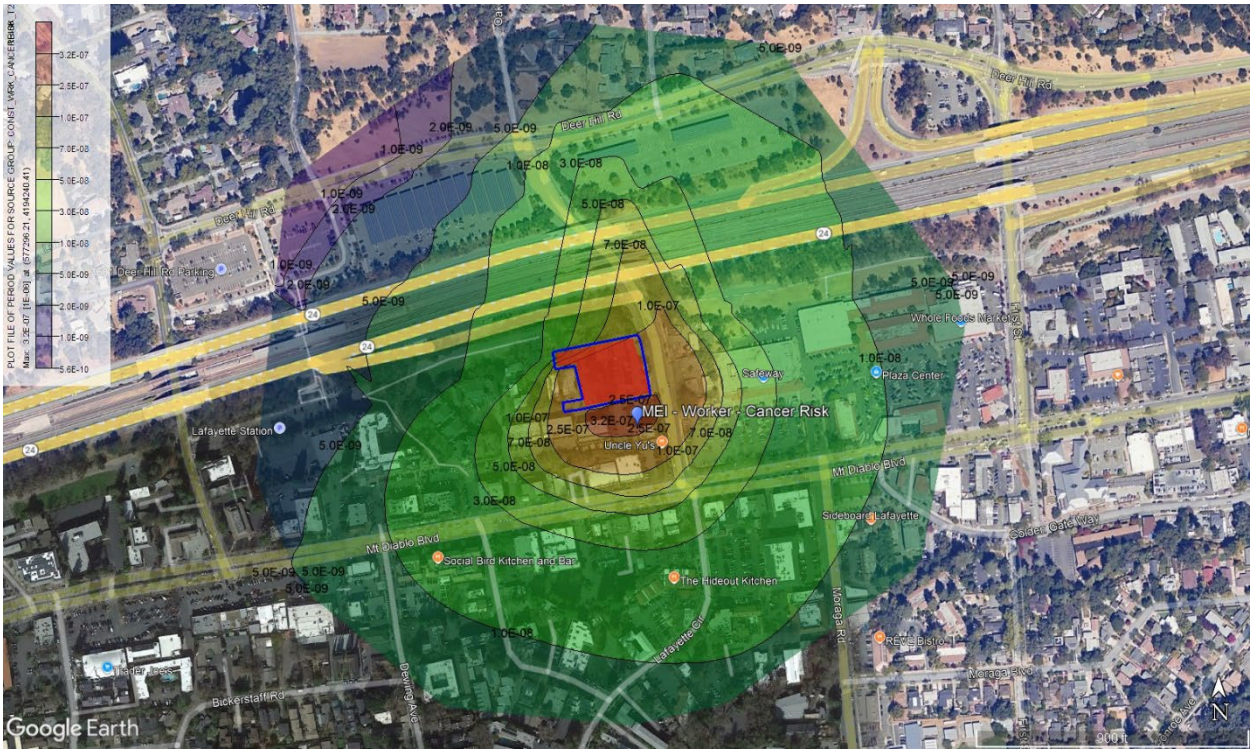
Construction Chronic Health Index - Sensitive Receptor



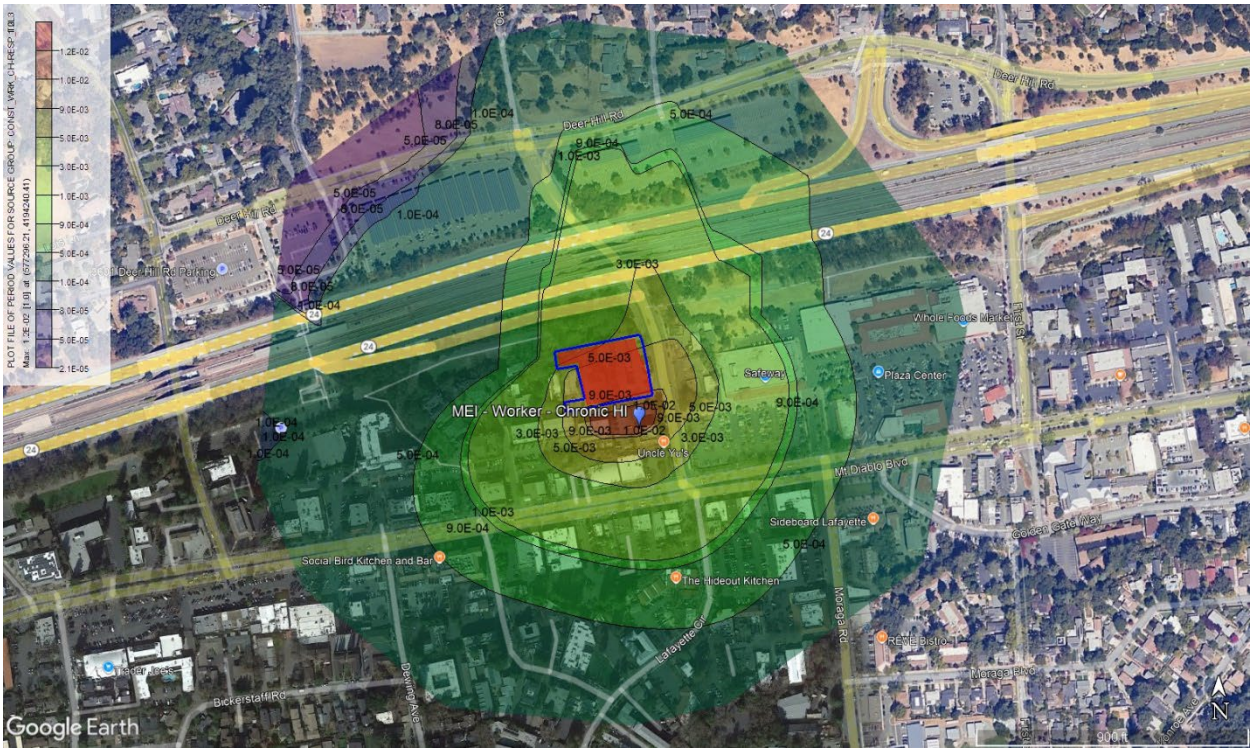
Construction Particulate Matter 2.5 – Sensitive Receptor



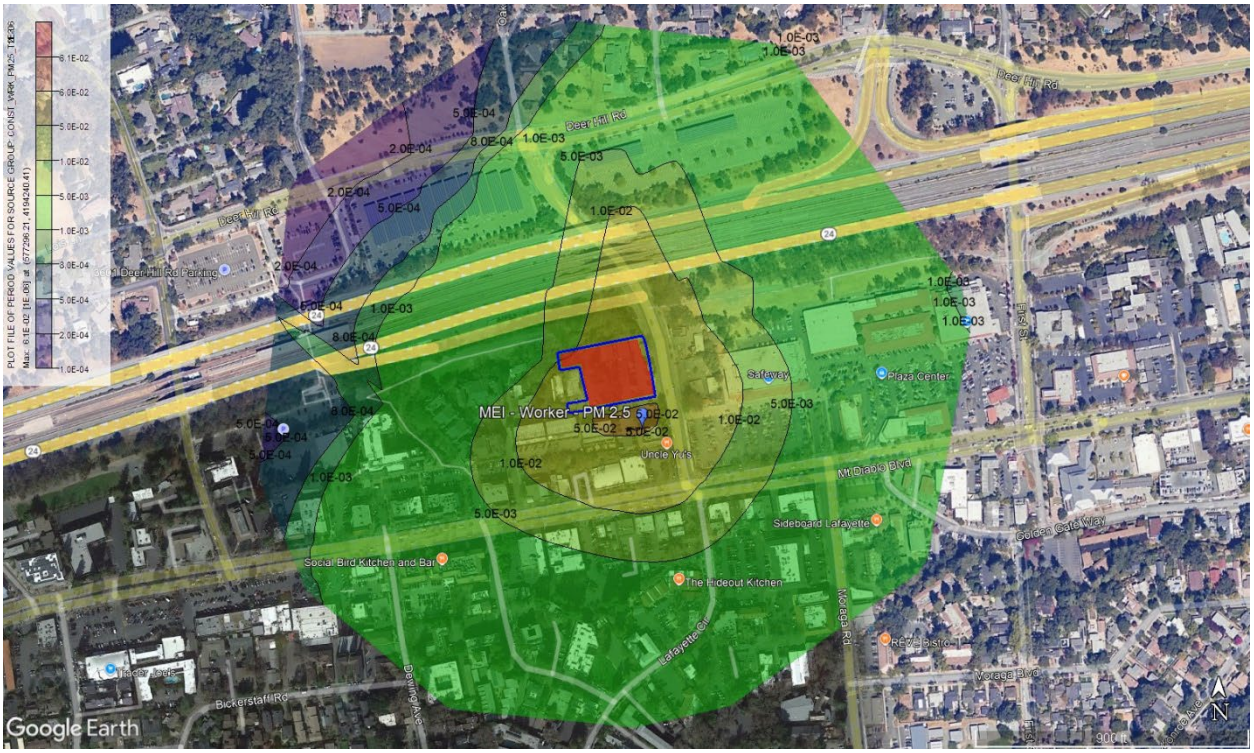
Construction Cancer Risk – Worker Receptor



Construction Chronic Health Index – Worker Receptor



Construction Particulate Matter 2.5 - Worker Receptor



Construction MEI (Sensitive) - Cancer Risk (in a Million) HARP Rec #: 1673 X: 577234.32 Y: 4194276.73			
T2	T2L3	T4	0
44.46	7.10	0.48	0.00
MEI (Sensitive) - Chronic Hazard Index HARP Rec #: 1673 X: 577234.32 Y: 4194276.73			
T2	T2L3	T4	0
4.31E-02	6.95E-03	5.30E-04	0.00E+00
MEI (Sensitive) - Acute Hazard Index HARP Rec #: NA X: NA Y: NA			
T2	T2L3	T4	0
0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEI (Sensitive) - PM 2.5 HARP Rec #: 1673 X: 577234.32 Y: 4194276.73			
T2	T2L3	T4	0
0.215	0.035	0.003	0.000

Construction MEI (Worker) - Cancer Risk (in a Million) HARP Rec #: 136 X: 577296.21 Y: 4194240.41			
T2	T2L3	T4	0
2.03	0.32	0.02	0.00
MEI (Worker) - Chronic Hazard Index HARP Rec #: 136 X: 577296.21 Y: 4194240.41			
T2	T2L3	T4	0
7.56E-02	1.22E-02	9.30E-04	0.00E+00
MEI (Worker) - Acute Hazard Index HARP Rec #: NA X: NA Y: NA			
T2	T2L3	T4	0
0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEI (Worker) - PM 2.5 HARP Rec #: 136 X: 577296.21 Y: 4194240.41			
T2	T2L3	T4	0
0.378	0.061	0.005	0.000

Description	Receptor Type	Model Type	UTM X	UTM Y	Latitude	Longitude
Construction	Sensitive	Cancer Risk	577234.32	4194276.73	37.89272813	-122.1215978
Construction	Sensitive	Chronic HI	577234.32	4194276.73	37.89272813	-122.1215978
Construction	Sensitive	Acute HI	0	0		
Construction	Sensitive	PM 2.5	577234.32	4194276.73	37.89272813	-122.1215978
Construction	School	Cancer Risk	0.00	0.00		
Construction	School	Chronic HI	0.00	0.00		
Construction	School	Acute HI	0	0		
Construction	School	PM 2.5	0.00	0.00		
Construction	Worker	Cancer Risk	577296.21	4194240.41	37.89239556	-122.1208979
Construction	Worker	Chronic HI	577296.21	4194240.41	37.89239556	-122.1208979
Construction	Worker	Acute HI	0	0		
Construction	Worker	PM 2.5	577296.21	4194240.41	37.89239556	-122.1208979

General AERMOD Input Parameters			
Project Boundary			
	Based on site plan		
Project Elevation Data			
	Source	**Lakes Environmental**	
	Link	http://www.webgis.com/terraindata.html	
	Evel Data Descr.	**7.5 min DEM**	
Project Receptor Grid			
	Telescoping Grid	Spacing (m)	Distance (m)
	Grid 1	**10**	**310**
	Grid 2		
	Grid 3		
	Grid 4		
	Comments	**Receptors on roads or parking lot areas have been removed.**	
Meteorological Dataset			
	Location	**Concord-Buchanan Field (KCCR)**	
	Provided By	**South Coast AQMD**	
	Years	**2015-2019**	
	Elevation (m)	**18**	
	Link		
Construction Modeling Specific Inputs			
AERMOD Input Options			
	Regulatory Options	**Default**	
	Pollutant Type	**Other**	
	Averaging Period	**Period & Hourly**	
	Dispersion Coefficient	**Urban**	
	County	**City of Lafayette**	
	Urban Grouping / Pop	**Y**	**25,949**
	# of Worker Receptors	**2,096**	
	# of Sensitive Receptors		
	# of School Receptors		
Construction Area Parameters			
	Source Type	**Polygon Area**	
	Project Area (m^2)	**3678.9**	
	Ht. of Source (m)	**3.048**	

General HARP Input Parameters		
Construction		
Sensitive Receptors		
Sensitive Scenario Parameters		
	Starting Age	**3rd Trimester**
	Age Range	**3rd Trimester - 3 Year**
	Receptor Type	**Individual Resident**
	Assessment Type	**Cancer / Chronic / Acute**
	Exposure Duration	**1**
	Intake Rate	**OEHHA Derived Merthod**
	Comments	**Each year of construction is modeled seperately and the impact to each recepetor is summed to estimate the total esposure from construction emissions. Additionally, the starting age is increased for each year of construction.**
Sensitive Pathway Parameters		
	Pathways	**BAAQMD Manadatory minimum Pathways**
	Deposition Rate	**0.02**
	TAH < 16 yrs	**Y**
	TAH ≥ 16 yrs	**Y**
Worker Receptors		
Worker Scenario Parameters		
	Starting Age	**16**
	Age Range	**16 - 18**
	Receptor Type	**Worker**
	Assessment Type	**Cancer / Chronic / Acute**
	Exposure Duration	**1**
	Intake Rate	**OEHHA Derived Merthod**
	Comments	**Each year of construction is modeled seperately and the impact to each recepetor is summed to estimate the total esposure from construction emissions. Additionally, the starting age is increased for each year of construction.**
Worker Pathway Parameters		
	Pathways	**OEHHA minimum Pathways**
	Deposition Rate	**0.02**
	TAH < 16 yrs	**N**
	TAH ≥ 16 yrs	**N**

			T2				1677	T2L3				T4			
							4.45E-05				7.10E-06				4.80E-07
					1673	577234.32	4194276.73								
	UTM X	UTM Y	Yr 1	Yr 2	Yr 3	Yr 4	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total
1	577330.13	4194344.72	5.72E-06	1.78E-05	2.79E-06	0.00E+00	2.63E-05	8.92E-07	2.87E-06	4.40E-07	4.20E-06	3.91E-08	2.19E-07	2.58E-08	2.84E-07
2	577339.31	4194348.63	4.25E-06	1.32E-05	2.07E-06	0.00E+00	1.95E-05	6.62E-07	2.13E-06	3.27E-07	3.12E-06	2.91E-08	1.63E-07	1.92E-08	2.11E-07
3	577348.49	4194352.54	3.25E-06	1.01E-05	1.58E-06	0.00E+00	1.49E-05	5.06E-07	1.63E-06	2.50E-07	2.39E-06	2.22E-08	1.24E-07	1.47E-08	1.61E-07
4	577334.42	4194332.31	6.94E-06	2.16E-05	3.38E-06	0.00E+00	3.19E-05	1.08E-06	3.48E-06	5.33E-07	5.09E-06	4.75E-08	2.66E-07	3.13E-08	3.44E-07
5	577343.94	4194335.37	5.10E-06	1.58E-05	2.48E-06	0.00E+00	2.34E-05	7.94E-07	2.55E-06	3.92E-07	3.74E-06	3.49E-08	1.95E-07	2.30E-08	2.53E-07
6	577353.46	4194338.42	3.83E-06	1.19E-05	1.87E-06	0.00E+00	1.76E-05	5.97E-07	1.92E-06	2.94E-07	2.81E-06	2.62E-08	1.47E-07	1.73E-08	1.90E-07
7	577362.98	4194341.47	2.99E-06	9.29E-06	1.45E-06	0.00E+00	1.37E-05	4.66E-07	1.50E-06	2.30E-07	2.19E-06	2.04E-08	1.14E-07	1.35E-08	1.48E-07
8	577372.51	4194344.53	2.40E-06	7.46E-06	1.17E-06	0.00E+00	1.10E-05	3.74E-07	1.20E-06	1.84E-07	1.76E-06	1.64E-08	9.18E-08	1.08E-08	1.19E-07
9	577380	4194353.91	1.90E-06	5.89E-06	9.23E-07	0.00E+00	8.71E-06	2.95E-07	9.50E-07	1.46E-07	1.39E-06	1.30E-08	7.26E-08	8.55E-09	9.41E-08
10	577389.52	4194356.96	1.64E-06	5.09E-06	7.97E-07	0.00E+00	7.52E-06	2.55E-07	8.20E-07	1.26E-07	1.20E-06	1.12E-08	6.26E-08	7.38E-09	8.12E-08
11	577346.39	4194326.47	5.81E-06	1.81E-05	2.83E-06	0.00E+00	2.67E-05	9.05E-07	2.91E-06	4.47E-07	4.26E-06	3.97E-08	2.22E-07	2.62E-08	2.88E-07
12	577356.04	4194329.08	4.34E-06	1.35E-05	2.11E-06	0.00E+00	2.00E-05	6.77E-07	2.18E-06	3.34E-07	3.19E-06	2.97E-08	1.66E-07	1.96E-08	2.15E-07
13	577365.7	4194331.68	3.38E-06	1.05E-05	1.64E-06	0.00E+00	1.55E-05	5.26E-07	1.69E-06	2.60E-07	2.48E-06	2.31E-08	1.29E-07	1.52E-08	1.68E-07
14	577375.35	4194334.29	2.71E-06	8.41E-06	1.32E-06	0.00E+00	1.24E-05	4.22E-07	1.36E-06	2.08E-07	1.99E-06	1.85E-08	1.04E-07	1.22E-08	1.34E-07
15	577383.08	4194344.01	2.09E-06	6.51E-06	1.02E-06	0.00E+00	9.62E-06	3.26E-07	1.05E-06	1.61E-07	1.54E-06	1.43E-08	8.01E-08	9.44E-09	1.04E-07
16	577392.74	4194346.61	1.79E-06	5.57E-06	8.72E-07	0.00E+00	8.23E-06	2.79E-07	8.98E-07	1.38E-07	1.31E-06	1.22E-08	6.85E-08	8.08E-09	8.88E-08
17	577402.39	4194349.22	1.55E-06	4.83E-06	7.56E-07	0.00E+00	7.14E-06	2.42E-07	7.79E-07	1.19E-07	1.14E-06	1.06E-08	5.94E-08	7.01E-09	7.71E-08
18	577412.05	4194351.83	1.39E-06	4.34E-06	6.79E-07	0.00E+00	6.41E-06	2.17E-07	6.99E-07	1.07E-07	1.02E-06	9.54E-09	5.34E-08	6.29E-09	6.92E-08
19	577421.7	4194354.43	1.26E-06	3.91E-06	6.13E-07	0.00E+00	5.78E-06	1.96E-07	6.31E-07	9.67E-08	9.23E-07	8.61E-09	4.81E-08	5.67E-09	6.24E-08
20	577431.35	4194357.04	1.14E-06	3.54E-06	5.54E-07	0.00E+00	5.23E-06	1.77E-07	5.70E-07	8.74E-08	8.35E-07	7.78E-09	4.35E-08	5.13E-09	5.64E-08
21	577441.01	4194359.65	1.03E-06	3.20E-06	5.01E-07	0.00E+00	4.73E-06	1.60E-07	5.16E-07	7.92E-08	7.56E-07	7.04E-09	3.94E-08	4.64E-09	5.11E-08
22	577450.66	4194362.26	9.34E-07	2.90E-06	4.55E-07	0.00E+00	4.29E-06	1.46E-07	4.68E-07	7.18E-08	6.86E-07	6.39E-09	3.57E-08	4.21E-09	4.63E-08
23	577462.24	4194357.75	8.78E-07	2.73E-06	4.27E-07	0.00E+00	4.03E-06	1.37E-07	4.40E-07	6.75E-08	6.44E-07	6.00E-09	3.36E-08	3.96E-09	4.36E-08
24	577471.89	4194360.36	7.94E-07	2.47E-06	3.86E-07	0.00E+00	3.65E-06	1.24E-07	3.98E-07	6.10E-08	5.83E-07	5.43E-09	3.04E-08	3.58E-09	3.94E-08
25	577481.55	4194362.97	7.20E-07	2.24E-06	3.50E-07	0.00E+00	3.31E-06	1.12E-07	3.61E-07	5.53E-08	5.28E-07	4.92E-09	2.75E-08	3.24E-09	3.57E-08
26	577491.2	4194365.57	6.55E-07	2.04E-06	3.19E-07	0.00E+00	3.01E-06	1.02E-07	3.28E-07	5.04E-08	4.81E-07	4.48E-09	2.51E-08	2.96E-09	3.25E-08
27	577500.85	4194368.18	5.99E-07	1.86E-06	2.92E-07	0.00E+00	2.75E-06	9.33E-08	3.00E-07	4.60E-08	4.39E-07	4.10E-09	2.29E-08	2.70E-09	2.97E-08
28	577510.51	4194370.79	5.49E-07	1.71E-06	2.67E-07	0.00E+00	2.52E-06	8.56E-08	2.75E-07	4.22E-08	4.03E-07	3.76E-09	2.10E-08	2.48E-09	2.72E-08
29	577520.16	4194373.39	5.04E-07	1.57E-06	2.46E-07	0.00E+00	2.32E-06	7.86E-08	2.53E-07	3.88E-08	3.70E-07	3.45E-09	1.93E-08	2.27E-09	2.50E-08
30	577337.13	4194322.21	8.15E-06	2.53E-05	3.97E-06	0.00E+00	3.74E-05	1.27E-06	4.08E-06	6.26E-07	5.98E-06	5.57E-08	3.12E-07	3.67E-08	4.04E-07
31	577348.39	4194317.26	6.58E-06	2.04E-05	3.20E-06	0.00E+00	3.02E-05	1.02E-06	3.30E-06	5.06E-07	4.83E-06	4.50E-08	2.52E-07	2.97E-08	3.26E-07
32	577358.17	4194319.32	4.92E-06	1.53E-05	2.40E-06	0.00E+00	2.26E-05	7.67E-07	2.47E-06	3.78E-07	3.61E-06	3.37E-08	1.88E-07	2.22E-08	2.44E-07
33	577367.96	4194321.37	3.81E-06	1.18E-05	1.86E-06	0.00E+00	1.75E-05	5.94E-07	1.91E-06	2.93E-07	2.80E-06	2.61E-08	1.46E-07	1.72E-08	1.89E-07
34	577377.75	4194323.43	3.04E-06	9.45E-06	1.48E-06	0.00E+00	1.40E-05	4.74E-07	1.52E-06	2.34E-07	2.23E-06	2.08E-08	1.16E-07	1.37E-08	1.51E-07
35	577386.06	4194332.48	2.34E-06	7.29E-06	1.14E-06	0.00E+00	1.08E-05	3.65E-07	1.18E-06	1.80E-07	1.72E-06	1.60E-08	8.97E-08	1.06E-08	1.16E-07
36	577395.85	4194334.54	1.98E-06	6.16E-06	9.64E-07	0.00E+00	9.10E-06	3.09E-07	9.93E-07	1.52E-07	1.45E-06	1.35E-08	7.58E-08	8.93E-09	9.83E-08
37	577405.64	4194336.59	1.71E-06	5.32E-06	8.33E-07	0.00E+00	7.86E-06	2.67E-07	8.57E-07	1.32E-07	1.26E-06	1.17E-08	6.55E-08	7.72E-09	8.49E-08
38	577415.42	4194338.65	1.53E-06	4.75E-06	7.45E-07	0.00E+00	7.03E-06	2.38E-07	7.67E-07	1.18E-07	1.12E-06	1.05E-08	5.85E-08	6.90E-09	7.59E-08
39	577425.21	4194340.7	1.37E-06	4.26E-06	6.67E-07	0.00E+00	6.30E-06	2.14E-07	6.87E-07	1.05E-07	1.01E-06	9.37E-09	5.24E-08	6.18E-09	6.80E-08
40	577434.13	4194346.34	1.21E-06	3.76E-06	5.88E-07	0.00E+00	5.55E-06	1.88E-07	6.06E-07	9.29E-08	8.87E-07	8.26E-09	4.62E-08	5.45E-09	5.99E-08
41	577436.46	4194335.76	1.28E-06	3.97E-06	6.21E-07	0.00E+00	5.86E-06	1.99E-07	6.40E-07	9.81E-08	9.36E-07	8.73E-09	4.88E-08	5.75E-09	6.33E-08
42	577443.86	4194348.68	1.09E-06	3.39E-06	5.30E-07	0.00E+00	5.01E-06	1.70E-07	5.46E-07	8.37E-08	8.00E-07	7.45E-09	4.17E-08	4.91E-09	5.40E-08
43	577446.25	4194337.81	1.15E-06	3.57E-06	5.59E-07	0.00E+00	5.28E-06	1.79E-07	5.75E-07	8.83E-08	8.43E-07	7.85E-09	4.39E-08	5.18E-09	5.70E-08
44	577453.58	4194351.01	9.86E-07	3.06E-06	4.80E-07	0.00E+00	4.53E-06	1.54E-07	4.94E-07	7.58E-08	7.24E-07	6.74E-09	3.77E-08	4.45E-09	4.89E-08
45	577456.04	4194339.87	1.04E-06	3.22E-06	5.04E-07	0.00E+00	4.76E-06	1.61E-07	5.19E-07	7.97E-08	7.61E-07	7.09E-09	3.96E-08	4.67E-09	5.14E-08
46	577464.35	4194348.92	9.10E-07	2.83E-06	4.43E-07	0.00E+00	4.18E-06	1.42E-07	4.56E-07	6.99E-08	6.68E-07	6.22E-09	3.48E-08	4.10E-09	4.51E-08
47	577474.14	4194350.98	8.21E-07	2.55E-06	4.00E-07	0.00E+00	3.77E-06	1.28E-07	4.11E-07	6.31E-08	6.02E-07	5.61E-09	3.14E-08	3.70E-09	4.07E-08
48	577483.93	4194353.03	7.45E-07	2.31E-06	3.62E-07	0.00E+00	3.42E-06	1.16E-07	3.73E-07	5.72E-08	5.46E-07	5.09E-09	2.85E-08	3.36E-09	3.69E-08
49	577493.71	4194355.09	6.78E-07	2.11E-06	3.30E-07	0.00E+00	3.12E-06	1.06E-07	3.40E-07	5.21E-08	4.98E-07	4.64E-09	2.60E-08	3.06E-09	3.36E-08
50	577503.5	4194357.14	6.20E-07	1.93E-06	3.02E-07	0.00E+00	2.85E-06	9.66E-08	3.11E-07	4.76E-08	4.55E-07	4.24E-09	2.37E-08	2.80E-09	3.08E-08
51	577513.29	4194359.2	5.69E-07	1.77E-06	2.77E-07	0.00E+00	2.61E-06	8.86E-08	2.85E-07	4.37E-08	4.17E-07	3.89E-09	2.18E-08	2.56E-09	2.82E-08
52	577523.07	4194361.25	5.23E-07	1.63E-06	2.55E-07	0.00E+00	2.40E-06	8.15E-08	2.62E-07	4.02E-08	3.84E-07	3.58E-09	2.00E-08	2.36E-09	2.60E-08
53	577531.34	4194369.66	4.72E-07	1.47E-06	2.30E-07	0.00E+00	2.17E-06	7.36E-08	2.37E-07	3.63E-08	3.46E-07	3.23E-09	1.81E-08	2.13E-09	2.34E-08
54	577534.33	4194356.31	4.89E-07	1.52E-06	2.38E-07	0.00E+00	2.25E-06	7.62E-08	2.45E-07	3.76E-08	3.59E-07	3.35E-09	1.87E-08	2.21E-09	2.43E-08
55	577541.06	4194371.99	4.35E-07	1.35E-06	2.12E-07	0.00E+00	2.00E-06	6.77E-08	2.18E-07	3.34E-08	3.19E-07	2.97E-09	1.66E-08	1.96E-09	2.16E-08
56	577544.12	4194358.36	4.50E-07	1.40E-06	2.19E-07	0.00E+00	2.07E-06	7.00E-08	2.25E-07	3.46E-08	3.30E-07	3.07E-09	1.72E-08	2.03E-09	2.23E-08
57	577550.78	4194374.32	4.01E-07	1.25E-06	1.95E-07	0.00E+00	1.84E-06	6.25E-08	2.01E-07	3.08E-08	2.94E-07	2.74E-09	1.54E-08	1.81E-09	1.99E-08
58	577553.9	4194360.42	4.14E-07	1.29E-06	2.02E-07	0.00E+00	1.90E-06	6.46E-08	2.08E-07	3.19E-08	3.04E-07	2.83E-09	1.59E-08	1.87E-09	2.06E-08
59	577561.07	4194374.26	3.73E-07	1.16E-06	1.81E-07	0.00E+00	1.71E-06	5.81E-08	1.87E-07	2.86E-08	2.74E-07	2.55E-09	1.43E-08	1.68E-09	1.85E-08
60	577563.69	4194362.47	3.82E-07	1.19E-06	1.86E-07	0.00E+00	1.75E-06	5.95E-08	1.91E-07	2.93E-08	2.80E-07	2.61E-09	1.46E-08	1.72E-09	1.89E-08
61	577570.82	4194376.5	3.45E-07	1.07E-06	1.68E-07	0.00E+00	1.58E-06	5.37E-08	1.73E-07	2.65E-08	2.53E-07	2.36E-09	1.32E-08	1.56E-09	1.71E-08
62	577573.48	4194364.53	3.52E-07	1.09E-06	1.71E-07	0.00E+00	1.62E-06	5.49E-08	1.77E-07	2.71E-08	2.58E-07	2.41E-09	1.35E-08	1.59E-09	1.75E-08
63	577580.56	4194378.74	3.20E-07	9.95E-07	1.56E-07	0.00E+00	1.47E-06	4.99E-08	1.61E-07	2.46E-08	2.35E-07	2.19E-09	1.23E-08	1.44E-09	1.59E-08
64	577583.26	4194366.58	3.26E-07	1.01E-06	1.59E-07	0.00E+00	1.50E-06	5.08E-08	1.63E-07	2.51E-08	2.39E-07	2.23E-09	1.25E-08	1.47E-09	1.62E-08
65	577590.3	4194380.97	3.01E-07	9.36E-07	1.47E-07	0.00E+00	1.38E-06	4.69E-08	1.51E-07	2.31E-08	2.21E-07	2.06E-09	1.15E-08	1.36E-09	1.49E-08
66	577593.05	4194368.64	3.08E-07	9.56E-07	1.50E-07	0.00E+00	1.41E-06	4.79E-08	1.54E-07	2.37E-08	2.26E-07	2.10E-09	1.18E-08	1.39E-09	1.53E-08
67	577600.04	4194383.21	2.85E-07	8.85E-07	1.39E-07	0.00E+00	1.31E-06	4.43E-08	1.43E-07	2.19E-08	2.09E-07	1.95E-09	1.09E-08	1.28E-09	1.41E-08
68	577602.84	4194370.7	2.91E-07	9.04E-07	1.42E-07	0.00E+00	1.34E-06	4.53E-08	1.46E-07	2.24E-08	2.14E-07	1.99E-09	1.11E-08	1.31E-09	1.44E-08
69	577609.79	4194385.45	2.69E-07	8.37E-07	1.31E-07	0.00E+00	1.24E-06	4.19E-08	1.35E-07	2.07E-08	1.98E-07	1.84E-09	1.03E-08	1.21E-09	1.34E-08
70	577612.62	4194372.75	2.75E-07	8.56E-07	1.34E-07	0.00E+00	1.27E-06	4.29E-08	1.38E-07	2.12E-08	2.02E-07	1.88E-09	1.05E-08	1.24E-09	1.37E-08
71	577619.53	4194387.69	2.55E-07	7.93E-07	1.24E-07	0.00E+00	1.17E-06	3.97E-08	1.28E-07	1.96E-08	1.87E-07	1.74E-09	9.76E-09	1.15E-09	1.27E-08
72	577622.41	4194374.81	2.62E-07	8.13E-07	1.27E-07	0.00E+00	1.20E-06	4.08E-08	1.31E-07	2.01E-08	1.92E-07	1.79E-09	1.00E-08	1.18E-09	1.30E-08
73	577340.33	4194307.04	9.78E-06	3.04E-05	4.76E-06	0.00E+00	4.49E-05	1.52E-06	4.90E-06	7.51E-07	7.17E-06	6.69E-08	3.74E-07	4.41E-08	4.85E-07
74	577343.82	4194290.6	1.03E-05	3.21E-05	5.03E-06	0.00E+00	4.75E-05	1.61E-06	5.18E-06	7.94E-07	7.58E-06	7.07E-08	3.95E-07	4.66E-08	5.12E-07
75	577351.86	4194300.89	7.42E-06	2.30E-05	3.61E-06	0.00E+00	3.41E-05	1.16E-06	3.72E-06	5.70E-07	5.44E-06	5.07E-08	2.84E-07	3.34E-08	3.68E-07
76	577355.34	4194284.45	7.44E-06	2.31E-05	3.62E-06	0.00E+00	3.42E-05	1.16E-06	3.73E-06	5.72E-07	5.46E-06	5.09E-08	2.85E-07	3.36E-08	3.69E-07
77	577361.64	4194302.97	5.58E-06	1.74E-05	2.72E-06	0.00E+00	2.57E-05	8.70E-07	2.80E-06	4.29E-07	4.10E-06	3.82E-08	2.14E-07	2.52E-08	2.77E-07
78	577365.12	4194286.53	5.76E-06	1.79E-05	2.81E-06	0.00E+00	2.65E-05	8.98E-07	2.89E-06	4.43E-07	4.23E-06	3.94E-08	2.20E-07	2.60E-08	2.86E-07
79	577371.42	4194305.04	4.34E-06	1.35E-05	2.11E-06	0.00E+00	1.99E-05	6.76E-07	2.17E-06	3.34E-07	3.18E-06	2.97E-08	1.66E-07	1.96E-08	2.15E-07

80	577374.91	4194288.6	4.57E-06	1.42E-05	2.23E-06	0.00E+00	2.10E-05	7.13E-07	2.29E-06	3.52E-07	3.36E-06	3.13E-08	1.75E-07	2.06E-08	2.27E-07
81	577381.2	4194307.12	3.46E-06	1.08E-05	1.69E-06	0.00E+00	1.59E-05	5.39E-07	1.73E-06	2.66E-07	2.54E-06	2.37E-08	1.32E-07	1.56E-08	1.72E-07
82	577384.69	4194290.68	3.70E-06	1.15E-05	1.80E-06	0.00E+00	1.70E-05	5.77E-07	1.85E-06	2.84E-07	2.72E-06	2.53E-08	1.42E-07	1.67E-08	1.84E-07
83	577389.24	4194317.41	2.64E-06	8.22E-06	1.29E-06	0.00E+00	1.21E-05	4.12E-07	1.32E-06	2.03E-07	1.94E-06	1.81E-08	1.01E-07	1.19E-08	1.31E-07
84	577392.73	4194300.97	2.95E-06	9.17E-06	1.44E-06	0.00E+00	1.36E-05	4.60E-07	1.48E-06	2.27E-07	2.16E-06	2.02E-08	1.13E-07	1.33E-08	1.46E-07
85	577399.03	4194319.48	2.19E-06	6.81E-06	1.07E-06	0.00E+00	1.01E-05	3.41E-07	1.10E-06	1.68E-07	1.61E-06	1.50E-08	8.38E-08	9.88E-09	1.09E-07
86	577402.51	4194303.04	2.45E-06	7.61E-06	1.19E-06	0.00E+00	1.12E-05	3.81E-07	1.23E-06	1.88E-07	1.80E-06	1.67E-08	9.36E-08	1.10E-08	1.21E-07
87	577408.81	4194321.56	1.89E-06	5.87E-06	9.19E-07	0.00E+00	8.67E-06	2.94E-07	9.46E-07	1.45E-07	1.39E-06	1.29E-08	7.22E-08	8.51E-09	9.36E-08
88	577412.29	4194305.12	2.09E-06	6.50E-06	1.02E-06	0.00E+00	9.62E-06	3.26E-07	1.05E-06	1.61E-07	1.54E-06	1.43E-08	8.01E-08	9.44E-09	1.04E-07
89	577418.59	4194323.63	1.67E-06	5.18E-06	8.12E-07	0.00E+00	7.66E-06	2.60E-07	8.36E-07	1.28E-07	1.22E-06	1.14E-08	6.38E-08	7.52E-09	8.27E-08
90	577422.08	4194307.19	1.81E-06	5.64E-06	8.83E-07	0.00E+00	8.33E-06	2.83E-07	9.09E-07	1.39E-07	1.33E-06	1.24E-08	6.94E-08	8.18E-09	9.00E-08
91	577428.37	4194325.7	1.48E-06	4.60E-06	7.21E-07	0.00E+00	6.80E-06	2.31E-07	7.42E-07	1.14E-07	1.09E-06	1.01E-08	5.66E-08	6.68E-09	7.34E-08
92	577431.86	4194309.26	1.59E-06	4.93E-06	7.72E-07	0.00E+00	7.29E-06	2.47E-07	7.95E-07	1.22E-07	1.16E-06	1.09E-08	6.07E-08	7.16E-09	7.87E-08
93	577439.9	4194319.56	1.36E-06	4.24E-06	6.64E-07	0.00E+00	6.26E-06	2.12E-07	6.83E-07	1.05E-07	1.00E-06	9.32E-09	5.21E-08	6.15E-09	6.76E-08
94	577443.38	4194303.12	1.44E-06	4.47E-06	6.99E-07	0.00E+00	6.60E-06	2.24E-07	7.20E-07	1.10E-07	1.05E-06	9.82E-09	5.50E-08	6.48E-09	7.13E-08
95	577449.68	4194321.63	1.22E-06	3.80E-06	5.95E-07	0.00E+00	5.62E-06	1.91E-07	6.13E-07	9.40E-08	8.98E-07	8.36E-09	4.68E-08	5.52E-09	6.07E-08
96	577453.17	4194305.19	1.27E-06	3.94E-06	6.18E-07	0.00E+00	5.83E-06	1.98E-07	6.36E-07	9.75E-08	9.31E-07	8.68E-09	4.85E-08	5.72E-09	6.29E-08
97	577459.46	4194323.71	1.09E-06	3.40E-06	5.33E-07	0.00E+00	5.03E-06	1.71E-07	5.48E-07	8.41E-08	8.03E-07	7.48E-09	4.19E-08	4.93E-09	5.43E-08
98	577462.95	4194307.27	1.13E-06	3.50E-06	5.49E-07	0.00E+00	5.18E-06	1.76E-07	5.65E-07	8.66E-08	8.27E-07	7.71E-09	4.31E-08	5.08E-09	5.59E-08
99	577467.5	4194334	9.58E-07	2.98E-06	4.66E-07	0.00E+00	4.40E-06	1.49E-07	4.80E-07	7.36E-08	7.03E-07	6.55E-09	3.66E-08	4.32E-09	4.75E-08
100	577470.99	4194317.56	9.96E-07	3.10E-06	4.85E-07	0.00E+00	4.58E-06	1.55E-07	4.99E-07	7.66E-08	7.31E-07	6.81E-09	3.81E-08	4.49E-09	4.94E-08
101	577477.29	4194336.07	8.62E-07	2.68E-06	4.20E-07	0.00E+00	3.96E-06	1.34E-07	4.32E-07	6.63E-08	6.33E-07	5.90E-09	3.30E-08	3.89E-09	4.28E-08
102	577480.77	4194319.63	8.96E-07	2.78E-06	4.36E-07	0.00E+00	4.11E-06	1.40E-07	4.49E-07	6.88E-08	6.57E-07	6.12E-09	3.43E-08	4.04E-09	4.44E-08
103	577487.07	4194338.15	7.80E-07	2.43E-06	3.80E-07	0.00E+00	3.59E-06	1.22E-07	3.91E-07	6.00E-08	5.73E-07	5.34E-09	2.99E-08	3.52E-09	3.87E-08
104	577490.55	4194321.71	8.09E-07	2.52E-06	3.94E-07	0.00E+00	3.72E-06	1.26E-07	4.06E-07	6.22E-08	5.94E-07	5.53E-09	3.10E-08	3.65E-09	4.01E-08
105	577496.85	4194340.22	7.09E-07	2.20E-06	3.45E-07	0.00E+00	3.26E-06	1.11E-07	3.55E-07	5.45E-08	5.20E-07	4.85E-09	2.71E-08	3.20E-09	3.52E-08
106	577500.34	4194323.78	7.35E-07	2.29E-06	3.58E-07	0.00E+00	3.38E-06	1.15E-07	3.68E-07	5.65E-08	5.40E-07	5.03E-09	2.81E-08	3.32E-09	3.65E-08
107	577506.63	4194342.29	6.47E-07	2.01E-06	3.15E-07	0.00E+00	2.97E-06	1.01E-07	3.24E-07	4.97E-08	4.75E-07	4.43E-09	2.48E-08	2.92E-09	3.21E-08
108	577510.12	4194325.85	6.71E-07	2.08E-06	3.26E-07	0.00E+00	3.08E-06	1.04E-07	3.36E-07	5.15E-08	4.92E-07	4.59E-09	2.57E-08	3.02E-09	3.33E-08
109	577516.42	4194344.37	5.92E-07	1.84E-06	2.88E-07	0.00E+00	2.72E-06	9.23E-08	2.97E-07	4.55E-08	4.35E-07	4.05E-09	2.27E-08	2.67E-09	2.94E-08
110	577519.9	4194327.93	6.13E-07	1.91E-06	2.99E-07	0.00E+00	2.82E-06	9.56E-08	3.07E-07	4.71E-08	4.50E-07	4.19E-09	2.35E-08	2.77E-09	3.04E-08
111	577526.2	4194346.44	5.44E-07	1.69E-06	2.65E-07	0.00E+00	2.50E-06	8.48E-08	2.73E-07	4.18E-08	3.99E-07	3.72E-09	2.08E-08	2.45E-09	2.70E-08
112	577529.69	4194330	5.63E-07	1.75E-06	2.74E-07	0.00E+00	2.58E-06	8.76E-08	2.82E-07	4.32E-08	4.13E-07	3.85E-09	2.15E-08	2.54E-09	2.79E-08
113	577537.73	4194340.3	5.07E-07	1.57E-06	2.47E-07	0.00E+00	2.33E-06	7.89E-08	2.54E-07	3.89E-08	3.72E-07	3.46E-09	1.94E-08	2.28E-09	2.51E-08
114	577541.21	4194323.86	5.19E-07	1.61E-06	2.53E-07	0.00E+00	2.39E-06	8.09E-08	2.60E-07	3.99E-08	3.81E-07	3.55E-09	1.99E-08	2.34E-09	2.57E-08
115	577547.51	4194342.37	4.64E-07	1.44E-06	2.26E-07	0.00E+00	2.13E-06	7.24E-08	2.33E-07	3.57E-08	3.41E-07	3.18E-09	1.78E-08	2.09E-09	2.30E-08
116	577550.99	4194325.93	4.75E-07	1.48E-06	2.31E-07	0.00E+00	2.18E-06	7.40E-08	2.38E-07	3.65E-08	3.49E-07	3.25E-09	1.82E-08	2.14E-09	2.36E-08
117	577557.29	4194344.44	4.26E-07	1.32E-06	2.07E-07	0.00E+00	1.96E-06	6.64E-08	2.14E-07	3.28E-08	3.13E-07	2.91E-09	1.63E-08	1.92E-09	2.11E-08
118	577560.78	4194328	4.34E-07	1.35E-06	2.11E-07	0.00E+00	2.00E-06	6.77E-08	2.18E-07	3.34E-08	3.19E-07	2.97E-09	1.66E-08	1.96E-09	2.15E-08
119	577567.07	4194346.52	3.91E-07	1.22E-06	1.90E-07	0.00E+00	1.80E-06	6.09E-08	1.96E-07	3.00E-08	2.87E-07	2.67E-09	1.50E-08	1.76E-09	1.94E-08
120	577570.56	4194330.08	3.98E-07	1.24E-06	1.94E-07	0.00E+00	1.83E-06	6.20E-08	1.99E-07	3.06E-08	2.92E-07	2.72E-09	1.52E-08	1.79E-09	1.97E-08
121	577576.86	4194348.59	3.60E-07	1.12E-06	1.75E-07	0.00E+00	1.65E-06	5.60E-08	1.80E-07	2.76E-08	2.64E-07	2.46E-09	1.38E-08	1.62E-09	1.78E-08
122	577580.34	4194332.15	3.65E-07	1.13E-06	1.78E-07	0.00E+00	1.68E-06	5.69E-08	1.83E-07	2.81E-08	2.68E-07	2.50E-09	1.40E-08	1.65E-09	1.81E-08
123	577586.64	4194350.66	3.34E-07	1.04E-06	1.62E-07	0.00E+00	1.53E-06	5.20E-08	1.67E-07	2.57E-08	2.45E-07	2.28E-09	1.28E-08	1.51E-09	1.66E-08
124	577590.12	4194334.22	3.41E-07	1.06E-06	1.66E-07	0.00E+00	1.57E-06	5.31E-08	1.71E-07	2.62E-08	2.50E-07	2.33E-09	1.30E-08	1.54E-09	1.69E-08
125	577596.42	4194352.74	3.15E-07	9.79E-07	1.53E-07	0.00E+00	1.45E-06	4.91E-08	1.58E-07	2.42E-08	2.31E-07	2.15E-09	1.21E-08	1.42E-09	1.56E-08
126	577599.91	4194336.3	3.21E-07	9.97E-07	1.56E-07	0.00E+00	1.47E-06	5.00E-08	1.61E-07	2.47E-08	2.35E-07	2.19E-09	1.23E-08	1.45E-09	1.59E-08
127	577606.2	4194354.81	2.98E-07	9.26E-07	1.45E-07	0.00E+00	1.37E-06	4.64E-08	1.49E-07	2.29E-08	2.19E-07	2.04E-09	1.14E-08	1.34E-09	1.48E-08
128	577609.69	4194338.37	3.03E-07	9.41E-07	1.47E-07	0.00E+00	1.39E-06	4.72E-08	1.52E-07	2.33E-08	2.22E-07	2.07E-09	1.16E-08	1.37E-09	1.50E-08
129	577615.99	4194356.89	2.82E-07	8.77E-07	1.37E-07	0.00E+00	1.30E-06	4.40E-08	1.41E-07	2.17E-08	2.07E-07	1.93E-09	1.08E-08	1.27E-09	1.40E-08
130	577619.47	4194340.45	2.88E-07	8.94E-07	1.40E-07	0.00E+00	1.32E-06	4.48E-08	1.44E-07	2.21E-08	2.11E-07	1.97E-09	1.10E-08	1.30E-09	1.43E-08
131	577625.77	4194358.96	2.68E-07	8.34E-07	1.31E-07	0.00E+00	1.23E-06	4.18E-08	1.34E-07	2.06E-08	1.97E-07	1.84E-09	1.03E-08	1.21E-09	1.33E-08
132	577629.25	4194342.52	2.75E-07	8.53E-07	1.34E-07	0.00E+00	1.26E-06	4.28E-08	1.38E-07	2.11E-08	2.01E-07	1.88E-09	1.05E-08	1.24E-09	1.36E-08
133	577342.92	4194267.59	9.79E-06	3.04E-05	4.77E-06	0.00E+00	4.50E-05	1.53E-06	4.91E-06	7.53E-07	7.19E-06	6.70E-08	3.75E-07	4.42E-08	4.86E-07
134	577314.28	4194244.81	1.40E-05	4.35E-05	6.82E-06	0.00E+00	6.44E-05	2.18E-06	7.02E-06	1.08E-06	1.03E-05	9.58E-08	5.36E-07	6.32E-08	6.95E-07
135	577305.25	4194242.61	1.58E-05	4.90E-05	7.68E-06	0.00E+00	7.25E-05	2.46E-06	7.91E-06	1.21E-06	1.16E-05	1.08E-07	6.04E-07	7.11E-08	7.83E-07
136	577296.21	4194240.41	1.70E-05	5.27E-05	8.26E-06	0.00E+00	7.80E-05	2.64E-06	8.50E-06	1.30E-06	1.25E-05	1.16E-07	6.49E-07	7.65E-08	8.42E-07
137	577343.97	4194250.47	7.63E-06	2.37E-05	3.71E-06	0.00E+00	3.51E-05	1.19E-06	3.82E-06	5.86E-07	5.60E-06	5.22E-08	2.92E-07	3.44E-08	3.78E-07
138	577351.39	4194262.26	7.36E-06	2.29E-05	3.58E-06	0.00E+00	3.38E-05	1.15E-06	3.69E-06	5.65E-07	5.40E-06	5.03E-08	2.81E-07	3.32E-08	3.65E-07
139	577316.65	4194235.1	1.04E-05	3.23E-05	5.05E-06	0.00E+00	4.77E-05	1.62E-06	5.20E-06	7.98E-07	7.62E-06	7.10E-08	3.97E-07	4.68E-08	5.15E-07
140	577307.61	4194232.89	1.14E-05	3.53E-05	5.53E-06	0.00E+00	5.22E-05	1.77E-06	5.69E-06	8.73E-07	8.33E-06	7.76E-08	4.34E-07	5.12E-08	5.63E-07
141	577298.58	4194230.69	1.20E-05	3.74E-05	5.85E-06	0.00E+00	5.52E-05	1.87E-06	6.02E-06	9.24E-07	8.82E-06	8.22E-08	4.60E-07	5.42E-08	5.96E-07
142	577346.34	4194240.76	6.38E-06	1.98E-05	3.10E-06	0.00E+00	2.93E-05	9.94E-07	3.20E-06	4.90E-07	4.68E-06	4.36E-08	2.44E-07	2.88E-08	3.16E-07
143	577359.85	4194256.94	5.71E-06	1.78E-05	2.78E-06	0.00E+00	2.63E-05	8.90E-07	2.86E-06	4.39E-07	4.19E-06	3.91E-08	2.19E-07	2.58E-08	2.83E-07
144	577362.49	4194271.73	6.03E-06	1.87E-05	2.93E-06	0.00E+00	2.77E-05	9.39E-07	3.02E-06	4.63E-07	4.42E-06	4.12E-08	2.31E-07	2.72E-08	2.99E-07
145	577319.02	4194225.38	8.02E-06	2.49E-05	3.90E-06	0.00E+00	3.68E-05	1.25E-06	4.02E-06	6.16E-07	5.88E-06	5.48E-08	3.07E-07	3.62E-08	3.98E-07
146	577309.98	4194223.18	8.61E-06	2.68E-05	4.19E-06	0.00E+00	3.96E-05	1.34E-06	4.32E-06	6.62E-07	6.32E-06	5.89E-08	3.30E-07	3.88E-08	4.27E-07
147	577300.95	4194220.98	9.04E-06	2.81E-05	4.40E-06	0.00E+00	4.16E-05	1.41E-06	4.53E-06	6.95E-07	6.64E-06	6.19E-08	3.46E-07	4.08E-08	4.49E-07
148	577352.37	4194233.68	5.21E-06	1.62E-05	2.53E-06	0.00E+00	2.39E-05	8.11E-07	2.61E-06	4.00E-07	3.82E-06	3.56E-08	1.99E-07	2.35E-08	2.58E-07
149	577359.68	4194238.95	4.83E-06	1.50E-05	2.35E-06	0.00E+00	2.22E-05	7.53E-07	2.42E-06	3.71E-07	3.55E-06	3.30E-08	1.85E-07	2.18E-08	2.40E-07
150	577368.58	4194253.09	4.63E-06	1.44E-05	2.25E-06	0.00E+00	2.13E-05	7.21E-07	2.32E-06	3.56E-07	3.40E-06	3.16E-08	1.77E-07	2.09E-08	2.29E-07
151	577370.16	4194261.97	4.79E-06	1.49E-05	2.33E-06	0.00E+00	2.20E-05	7.47E-07	2.40E-06	3.68E-07	3.52E-06	3.28E-08	1.83E-07	2.16E-08	2.38E-07
152	577330.42	4194217.87	5.99E-06	1.86E-05	2.91E-06	0.00E+00	2.75E-05	9.33E-07	3.00E-06	4.60E-07	4.39E-06	4.09E-08	2.29E-07	2.70E-08	2.97E-07
153	577321.38	4194215.66	6.49E-06	2.02E-05	3.16E-06	0.00E+00	2.98E-05	1.01E-06	3.25E-06	4.99E-07	4.76E-06	4.44E-08	2.48E-07	2.93E-08	3.22E-07
154	577312.35	4194213.46	6.88E-06	2.14E-05	3.35E-06	0.00E+00	3.16E-05	1.07E-06	3.45E-06	5.29E-07	5.05E-06	4.70E-08	2.63E-07	3.10E-08	3.41E-07
155	577303.32	4194211.26	7.12E-06	2.21E-05	3.47E-06	0.00E+00	3.27E-05	1.11E-06	3.57E-06	5.47E-07	5.23E-06	4.87E-08	2.72E-07	3.21E-08	3.53E-07
156	577294.28	4194209.06	7.16E-06	2.22E-05	3.48E-06	0.00E+00	3.29E-05	1.11E-06	3.59E-06	5.50E-07	5.25E-06	4.89E-08	2.74E-07	3.23E-08	3.55E-07
157	577285.25	4194206.86	6.98E-06	2.17E-05	3.40E-06	0.00E+00	3.21E-05	1.09E-06	3.50E-06	5.36E-07	5.12E-06	4.77E-08	2.67E-07	3.15E-08	3.46E-07
158	577354.13	4194223.52	4.48E-06	1.39E-05	2.18E-06	0.00E+00	2.06E-05	6.98E-07	2.25E-06	3.45E-07	3.29E-06	3.07E-08	1.71E-07	2.02E-08	2.22E-07
159	577368.35	4194233.77	3.95E-06	1.23E-05	1.92E-06	0.00E+00	1.82E-05	6.16E-07	1.98E-06	3.04E-07	2.90E-06	2.70E-08	1.51E-07	1.78E-08	1.96E-07
160	577377	4194247.52	3.81E-06	1.18E-05	1.86E-06	0.00E+00	1.75E-05	5.94E-07	1.91E-06	2.93E-07	2.80E-06	2.61E-08	1.46E-07	1.72E-08	1.89E-07
161	577380.08	4194264.78	4.00E-06	1.24E-05	1.95E-06	0.00E+00	1.84E-05	6.24E-07	2.01E-06	3.08E-07	2.94E-06	2.74E-08	1.53E-07	1.80E-08	1.99E-07
162	577323.75	4194205.95	5.34E-06	1.66E-05	2.60E-06	0.00E+00	2.46E-05	8.33E-07	2.68E-06	4.11E-07	3.92E-06	3.65E-08	2.04E-07	2.41E-08	2.65E-07

163	577314.72	4194203.75	5.61E-06	1.75E-05	2.73E-06	0.00E+00	2.58E-05	8.75E-07	2.81E-06	4.32E-07	4.12E-06	3.84E-08	2.15E-07	2.53E-08	2.78E-07
164	577305.68	4194201.55	5.75E-06	1.79E-05	2.80E-06	0.00E+00	2.64E-05	8.96E-07	2.88E-06	4.42E-07	4.22E-06	3.93E-08	2.20E-07	2.59E-08	2.85E-07
165	577296.65	4194199.34	5.73E-06	1.78E-05	2.79E-06	0.00E+00	2.63E-05	8.92E-07	2.87E-06	4.40E-07	4.20E-06	3.92E-08	2.19E-07	2.58E-08	2.84E-07
166	577287.62	4194197.14	5.56E-06	1.73E-05	2.71E-06	0.00E+00	2.55E-05	8.66E-07	2.79E-06	4.27E-07	4.08E-06	3.80E-08	2.13E-07	2.51E-08	2.76E-07
167	577356.06	4194213.49	3.87E-06	1.20E-05	1.89E-06	0.00E+00	1.78E-05	6.04E-07	1.94E-06	2.98E-07	2.84E-06	2.65E-08	1.48E-07	1.75E-08	1.92E-07
168	577369.99	4194223.53	3.50E-06	1.09E-05	1.70E-06	0.00E+00	1.61E-05	5.45E-07	1.75E-06	2.69E-07	2.57E-06	2.39E-08	1.34E-07	1.58E-08	1.74E-07
169	577385.44	4194242.02	3.19E-06	9.92E-06	1.55E-06	0.00E+00	1.47E-05	4.97E-07	1.60E-06	2.45E-07	2.34E-06	2.18E-08	1.22E-07	1.44E-08	1.58E-07
170	577388.45	4194258.93	3.34E-06	1.04E-05	1.62E-06	0.00E+00	1.53E-05	5.20E-07	1.67E-06	2.57E-07	2.45E-06	2.28E-08	1.28E-07	1.51E-08	1.66E-07
171	577391.46	4194275.84	3.33E-06	1.03E-05	1.62E-06	0.00E+00	1.53E-05	5.19E-07	1.67E-06	2.56E-07	2.44E-06	2.28E-08	1.27E-07	1.50E-08	1.65E-07
172	577326.12	4194196.23	4.46E-06	1.39E-05	2.17E-06	0.00E+00	2.05E-05	6.95E-07	2.23E-06	3.43E-07	3.27E-06	3.05E-08	1.71E-07	2.01E-08	2.21E-07
173	577317.09	4194194.03	4.65E-06	1.44E-05	2.26E-06	0.00E+00	2.14E-05	7.24E-07	2.33E-06	3.57E-07	3.41E-06	3.18E-08	1.78E-07	2.10E-08	2.30E-07
174	577308.05	4194191.83	4.72E-06	1.47E-05	2.30E-06	0.00E+00	2.17E-05	7.36E-07	2.37E-06	3.63E-07	3.47E-06	3.23E-08	1.81E-07	2.13E-08	2.34E-07
175	577299.02	4194189.63	4.68E-06	1.46E-05	2.28E-06	0.00E+00	2.15E-05	7.30E-07	2.35E-06	3.60E-07	3.44E-06	3.20E-08	1.79E-07	2.11E-08	2.32E-07
176	577289.99	4194187.43	4.55E-06	1.41E-05	2.21E-06	0.00E+00	2.09E-05	7.09E-07	2.28E-06	3.50E-07	3.34E-06	3.11E-08	1.74E-07	2.05E-08	2.26E-07
177	577358.1	4194203.54	3.37E-06	1.05E-05	1.64E-06	0.00E+00	1.55E-05	5.25E-07	1.69E-06	2.59E-07	2.47E-06	2.30E-08	1.29E-07	1.52E-08	1.67E-07
178	577371.82	4194213.42	3.10E-06	9.62E-06	1.51E-06	0.00E+00	1.42E-05	4.82E-07	1.55E-06	2.38E-07	2.27E-06	2.12E-08	1.18E-07	1.40E-08	1.54E-07
179	577385.54	4194223.3	2.78E-06	8.63E-06	1.35E-06	0.00E+00	1.28E-05	4.33E-07	1.39E-06	2.13E-07	2.04E-06	1.90E-08	1.06E-07	1.25E-08	1.38E-07
180	577393.88	4194236.57	2.71E-06	8.41E-06	1.32E-06	0.00E+00	1.24E-05	4.22E-07	1.36E-06	2.08E-07	1.99E-06	1.85E-08	1.04E-07	1.22E-08	1.34E-07
181	577396.84	4194253.21	2.83E-06	8.80E-06	1.38E-06	0.00E+00	1.30E-05	4.41E-07	1.42E-06	2.18E-07	2.08E-06	1.94E-08	1.08E-07	1.28E-08	1.40E-07
182	577399.81	4194269.86	2.85E-06	8.87E-06	1.39E-06	0.00E+00	1.31E-05	4.45E-07	1.43E-06	2.19E-07	2.09E-06	1.95E-08	1.09E-07	1.29E-08	1.42E-07
183	577402.77	4194286.5	2.71E-06	8.42E-06	1.32E-06	0.00E+00	1.24E-05	4.22E-07	1.36E-06	2.08E-07	1.99E-06	1.85E-08	1.04E-07	1.22E-08	1.34E-07
184	577360.21	4194193.64	2.95E-06	9.17E-06	1.44E-06	0.00E+00	1.36E-05	4.60E-07	1.48E-06	2.27E-07	2.16E-06	2.02E-08	1.13E-07	1.33E-08	1.46E-07
185	577373.76	4194203.4	2.75E-06	8.54E-06	1.34E-06	0.00E+00	1.26E-05	4.28E-07	1.38E-06	2.11E-07	2.02E-06	1.88E-08	1.05E-07	1.24E-08	1.36E-07
186	577387.31	4194213.16	2.50E-06	7.76E-06	1.22E-06	0.00E+00	1.15E-05	3.89E-07	1.25E-06	1.92E-07	1.83E-06	1.71E-08	9.55E-08	1.13E-08	1.24E-07
187	577402.32	4194231.14	2.32E-06	7.21E-06	1.13E-06	0.00E+00	1.07E-05	3.61E-07	1.16E-06	1.78E-07	1.70E-06	1.59E-08	8.87E-08	1.05E-08	1.15E-07
188	577405.25	4194247.58	2.43E-06	7.56E-06	1.18E-06	0.00E+00	1.12E-05	3.79E-07	1.22E-06	1.87E-07	1.78E-06	1.66E-08	9.30E-08	1.10E-08	1.21E-07
189	577408.18	4194264.02	2.46E-06	7.66E-06	1.20E-06	0.00E+00	1.13E-05	3.84E-07	1.23E-06	1.89E-07	1.81E-06	1.68E-08	9.42E-08	1.11E-08	1.22E-07
190	577411.11	4194280.46	2.38E-06	7.41E-06	1.16E-06	0.00E+00	1.10E-05	3.71E-07	1.19E-06	1.83E-07	1.75E-06	1.63E-08	9.12E-08	1.07E-08	1.18E-07
191	577386.97	4194201.5	2.28E-06	7.10E-06	1.11E-06	0.00E+00	1.05E-05	3.56E-07	1.14E-06	1.75E-07	1.68E-06	1.56E-08	8.73E-08	1.03E-08	1.13E-07
192	577394.42	4194206.86	2.17E-06	6.75E-06	1.06E-06	0.00E+00	9.98E-06	3.38E-07	1.09E-06	1.67E-07	1.59E-06	1.48E-08	8.31E-08	9.79E-09	1.08E-07
193	577401.87	4194212.23	2.06E-06	6.40E-06	1.00E-06	0.00E+00	9.46E-06	3.21E-07	1.03E-06	1.58E-07	1.51E-06	1.41E-08	7.87E-08	9.28E-09	1.02E-07
194	577410.94	4194226.64	2.02E-06	6.27E-06	9.82E-07	0.00E+00	9.27E-06	3.14E-07	1.01E-06	1.55E-07	1.48E-06	1.38E-08	7.72E-08	9.10E-09	1.00E-07
195	577412.55	4194235.68	2.08E-06	6.45E-06	1.01E-06	0.00E+00	9.54E-06	3.23E-07	1.04E-06	1.60E-07	1.52E-06	1.42E-08	7.94E-08	9.36E-09	1.03E-07
196	577414.16	4194244.72	2.12E-06	6.58E-06	1.03E-06	0.00E+00	9.73E-06	3.30E-07	1.06E-06	1.63E-07	1.55E-06	1.45E-08	8.10E-08	9.55E-09	1.05E-07
197	577415.77	4194253.76	2.14E-06	6.65E-06	1.04E-06	0.00E+00	9.83E-06	3.33E-07	1.07E-06	1.64E-07	1.57E-06	1.46E-08	8.19E-08	9.65E-09	1.06E-07
198	577417.38	4194262.81	2.14E-06	6.65E-06	1.04E-06	0.00E+00	9.84E-06	3.34E-07	1.07E-06	1.65E-07	1.57E-06	1.46E-08	8.19E-08	9.65E-09	1.06E-07
199	577418.99	4194271.85	2.11E-06	6.57E-06	1.03E-06	0.00E+00	9.72E-06	3.29E-07	1.06E-06	1.63E-07	1.55E-06	1.45E-08	8.09E-08	9.54E-09	1.05E-07
200	577420.6	4194280.89	2.06E-06	6.41E-06	1.00E-06	0.00E+00	9.47E-06	3.21E-07	1.03E-06	1.58E-07	1.51E-06	1.41E-08	7.88E-08	9.29E-09	1.02E-07
201	577422.21	4194289.93	1.99E-06	6.17E-06	9.67E-07	0.00E+00	9.13E-06	3.09E-07	9.95E-07	1.53E-07	1.46E-06	1.36E-08	7.60E-08	8.96E-09	9.85E-08
202	577351.94	4194164.84	2.35E-06	7.31E-06	1.14E-06	0.00E+00	1.08E-05	3.66E-07	1.18E-06	1.81E-07	1.73E-06	1.61E-08	9.00E-08	1.06E-08	1.17E-07
203	577403.16	4194201.73	1.88E-06	5.85E-06	9.17E-07	0.00E+00	8.65E-06	2.93E-07	9.44E-07	1.45E-07	1.38E-06	1.29E-08	7.21E-08	8.49E-09	9.34E-08
204	577410.47	4194207	1.80E-06	5.58E-06	8.74E-07	0.00E+00	8.25E-06	2.80E-07	9.00E-07	1.38E-07	1.32E-06	1.23E-08	6.87E-08	8.10E-09	8.91E-08
205	577419.37	4194221.15	1.76E-06	5.48E-06	8.59E-07	0.00E+00	8.11E-06	2.75E-07	8.84E-07	1.36E-07	1.29E-06	1.21E-08	6.75E-08	7.96E-09	8.75E-08
206	577422.53	4194238.91	1.85E-06	5.75E-06	9.01E-07	0.00E+00	8.51E-06	2.88E-07	9.28E-07	1.42E-07	1.36E-06	1.27E-08	7.08E-08	8.35E-09	9.18E-08
207	577425.7	4194256.66	1.88E-06	5.85E-06	9.16E-07	0.00E+00	8.64E-06	2.93E-07	9.43E-07	1.45E-07	1.38E-06	1.29E-08	7.20E-08	8.48E-09	9.33E-08
208	577428.86	4194274.41	1.84E-06	5.71E-06	8.94E-07	0.00E+00	8.44E-06	2.86E-07	9.21E-07	1.41E-07	1.35E-06	1.26E-08	7.03E-08	8.28E-09	9.11E-08
209	577432.02	4194292.17	1.72E-06	5.35E-06	8.38E-07	0.00E+00	7.91E-06	2.68E-07	8.63E-07	1.32E-07	1.26E-06	1.18E-08	6.59E-08	7.77E-09	8.54E-08
210	577344.63	4194159.57	2.34E-06	7.27E-06	1.14E-06	0.00E+00	1.08E-05	3.65E-07	1.17E-06	1.80E-07	1.72E-06	1.60E-08	8.95E-08	1.06E-08	1.16E-07
211	577335.59	4194157.37	2.41E-06	7.48E-06	1.17E-06	0.00E+00	1.11E-05	3.75E-07	1.21E-06	1.85E-07	1.77E-06	1.65E-08	9.21E-08	1.09E-08	1.19E-07
212	577326.56	4194155.17	2.44E-06	7.59E-06	1.19E-06	0.00E+00	1.12E-05	3.80E-07	1.22E-06	1.88E-07	1.79E-06	1.67E-08	9.34E-08	1.10E-08	1.21E-07
213	577317.53	4194152.97	2.44E-06	7.59E-06	1.19E-06	0.00E+00	1.12E-05	3.80E-07	1.22E-06	1.88E-07	1.79E-06	1.67E-08	9.34E-08	1.10E-08	1.21E-07
214	577308.49	4194150.77	2.41E-06	7.49E-06	1.17E-06	0.00E+00	1.11E-05	3.75E-07	1.21E-06	1.85E-07	1.77E-06	1.65E-08	9.22E-08	1.09E-08	1.20E-07
215	577299.46	4194148.56	2.35E-06	7.31E-06	1.15E-06	0.00E+00	1.08E-05	3.67E-07	1.18E-06	1.81E-07	1.73E-06	1.61E-08	9.00E-08	1.06E-08	1.17E-07
216	577354.2	4194155.05	2.07E-06	6.44E-06	1.01E-06	0.00E+00	9.53E-06	3.23E-07	1.04E-06	1.59E-07	1.52E-06	1.42E-08	7.93E-08	9.35E-09	1.03E-07
217	577368.61	4194165.43	2.04E-06	6.34E-06	9.92E-07	0.00E+00	9.37E-06	3.18E-07	1.02E-06	1.57E-07	1.50E-06	1.39E-08	7.80E-08	9.19E-09	1.01E-07
218	577427.81	4194215.69	1.56E-06	4.83E-06	7.57E-07	0.00E+00	7.15E-06	2.42E-07	7.80E-07	1.20E-07	1.14E-06	1.06E-08	5.95E-08	7.01E-09	7.72E-08
219	577430.93	4194233.18	1.63E-06	5.07E-06	7.94E-07	0.00E+00	7.49E-06	2.54E-07	8.17E-07	1.25E-07	1.20E-06	1.11E-08	6.24E-08	7.35E-09	8.09E-08
220	577434.04	4194250.66	1.66E-06	5.17E-06	8.10E-07	0.00E+00	7.65E-06	2.59E-07	8.34E-07	1.28E-07	1.22E-06	1.14E-08	6.37E-08	7.50E-09	8.25E-08
221	577437.16	4194268.15	1.64E-06	5.10E-06	7.99E-07	0.00E+00	7.54E-06	2.56E-07	8.22E-07	1.26E-07	1.20E-06	1.12E-08	6.28E-08	7.40E-09	8.14E-08
222	577440.27	4194285.63	1.56E-06	4.85E-06	7.60E-07	0.00E+00	7.17E-06	2.43E-07	7.82E-07	1.20E-07	1.15E-06	1.07E-08	5.97E-08	7.04E-09	7.74E-08
223	577337.96	4194147.66	2.11E-06	6.55E-06	1.03E-06	0.00E+00	9.68E-06	3.28E-07	1.06E-06	1.62E-07	1.55E-06	1.44E-08	8.06E-08	9.50E-09	1.04E-07
224	577328.93	4194145.45	2.13E-06	6.61E-06	1.04E-06	0.00E+00	9.78E-06	3.31E-07	1.07E-06	1.64E-07	1.56E-06	1.45E-08	8.14E-08	9.59E-09	1.06E-07
225	577319.89	4194143.25	2.12E-06	6.60E-06	1.03E-06	0.00E+00	9.75E-06	3.31E-07	1.06E-06	1.63E-07	1.56E-06	1.45E-08	8.12E-08	9.57E-09	1.05E-07
226	577310.86	4194141.05	2.09E-06	6.51E-06	1.02E-06	0.00E+00	9.62E-06	3.26E-07	1.05E-06	1.61E-07	1.54E-06	1.43E-08	8.01E-08	9.44E-09	1.04E-07
227	577301.83	4194138.85	2.05E-06	6.36E-06	9.96E-07	0.00E+00	9.40E-06	3.19E-07	1.03E-06	1.57E-07	1.50E-06	1.40E-08	7.83E-08	9.23E-09	1.02E-07
228	577356.48	4194145.27	1.84E-06	5.71E-06	8.95E-07	0.00E+00	8.45E-06	2.86E-07	9.21E-07	1.41E-07	1.35E-06	1.26E-08	7.03E-08	8.29E-09	9.12E-08
229	577370.7	4194155.51	1.82E-06	5.66E-06	8.87E-07	0.00E+00	8.37E-06	2.84E-07	9.13E-07	1.40E-07	1.34E-06	1.25E-08	6.97E-08	8.22E-09	9.04E-08
230	577384.93	4194165.76	1.75E-06	5.43E-06	8.50E-07	0.00E+00	8.03E-06	2.72E-07	8.75E-07	1.34E-07	1.28E-06	1.19E-08	6.68E-08	7.88E-09	8.67E-08
231	577436.26	4194210.26	1.38E-06	4.29E-06	6.72E-07	0.00E+00	6.34E-06	2.15E-07	6.92E-07	1.06E-07	1.01E-06	9.44E-09	5.28E-08	6.22E-09	6.84E-08
232	577439.33	4194227.52	1.44E-06	4.49E-06	7.03E-07	0.00E+00	6.63E-06	2.25E-07	7.23E-07	1.11E-07	1.06E-06	9.87E-09	5.52E-08	6.51E-09	7.16E-08
233	577442.41	4194244.78	1.48E-06	4.59E-06	7.19E-07	0.00E+00	6.79E-06	2.30E-07	7.40E-07	1.14E-07	1.08E-06	1.01E-08	5.65E-08	6.66E-09	7.33E-08
234	577445.48	4194262.04	1.47E-06	4.57E-06	7.16E-07	0.00E+00	6.76E-06	2.29E-07	7.37E-07	1.13E-07	1.08E-06	1.01E-08	5.62E-08	6.63E-09	7.29E-08
235	577448.56	4194279.3	1.42E-06	4.40E-06	6.90E-07	0.00E+00	6.51E-06	2.21E-07	7.10E-07	1.09E-07	1.04E-06	9.69E-09	5.42E-08	6.39E-09	7.03E-08
236	577340.33	4194137.94	1.85E-06	5.77E-06	9.03E-07	0.00E+00	8.52E-06	2.89E-07	9.30E-07	1.43E-07	1.36E-06	1.27E-08	7.10E-08	8.36E-09	9.20E-08
237	577331.3	4194135.74	1.87E-06	5.81E-06	9.09E-07	0.00E+00	8.58E-06	2.91E-07	9.36E-07	1.44E-07	1.37E-06	1.28E-08	7.15E-08	8.42E-09	9.27E-08
238	577322.26	4194133.54	1.86E-06	5.78E-06	9.06E-07	0.00E+00	8.55E-06	2.90E-07	9.33E-07	1.43E-07	1.37E-06	1.27E-08	7.12E-08	8.39E-09	9.23E-08
239	577313.23	4194131.33	1.83E-06	5.70E-06	8.93E-07	0.00E+00	8.43E-06	2.86E-07	9.19E-07	1.41E-07	1.35E-06	1.25E-08	7.02E-08	8.27E-09	9.10E-08
240	577304.19	4194129.13	1.79E-06	5.58E-06	8.74E-07	0.00E+00	8.25E-06	2.80E-07	8.99E-07	1.38E-07	1.32E-06	1.23E-08	6.87E-08	8.09E-09	8.90E-08
241	577358.77	4194135.49	1.64E-06	5.09E-06	7.97E-07	0.00E+00	7.53E-06	2.55E-07	8.21E-07	1.26E-07	1.20E-06	1.12E-08	6.27E-08	7.39E-09	8.13E-08
242	577372.84	4194145.63	1.64E-06	5.08E-06	7.96E-07	0.00E+00	7.52E-06	2.55E-07	8.20E-07	1.26E-07	1.20E-06	1.12E-08	6.26E-08	7.38E-09	8.11E-08
243	577386.91	4194155.76	1.58E-06	4.92E-06	7.71E-07	0.00E+00	7.28E-06	2.47E-07	7.94E-07	1.22E-07	1.16E-06	1.08E-08	6.06E-08	7.14E-09	7.86E-08
244	577400.98	4194165.9	1.50E-06	4.65E-06	7.28E-07	0.00E+00	6.88E-06	2.33E-07	7.50E-07	1.15E-07	1.10E-06	1.02E-08	5.72E-08	6.75E-09	7.42E-08
245	577415.05	4194176.03	1.40E-06	4.35E-06	6.82E-07	0.00E+00	6.44E-06	2.18E-07	7.02E-07	1.08E-07	1.03E-06	9.58E-09	5.36E-08	6.32E-09	6.95E-08

246	577447.75	4194221.91	1.29E-06	3.99E-06	6.26E-07	0.00E+00	5.90E-06	2.00E-07	6.44E-07	9.88E-08	9.43E-07	8.79E-09	4.92E-08	5.80E-09	6.37E-08
247	577450.79	4194238.98	1.32E-06	4.10E-06	6.42E-07	0.00E+00	6.06E-06	2.05E-07	6.61E-07	1.01E-07	9.67E-07	9.02E-09	5.04E-08	5.95E-09	6.54E-08
248	577453.83	4194256.05	1.32E-06	4.11E-06	6.43E-07	0.00E+00	6.07E-06	2.06E-07	6.62E-07	1.02E-07	9.69E-07	9.03E-09	5.05E-08	5.96E-09	6.55E-08
249	577456.87	4194273.12	1.29E-06	4.00E-06	6.27E-07	0.00E+00	5.91E-06	2.01E-07	6.45E-07	9.89E-08	9.45E-07	8.80E-09	4.92E-08	5.80E-09	6.38E-08
250	577459.91	4194290.19	1.22E-06	3.79E-06	5.94E-07	0.00E+00	5.61E-06	1.90E-07	6.11E-07	9.38E-08	8.95E-07	8.34E-09	4.67E-08	5.50E-09	6.05E-08
251	577342.7	4194128.22	1.64E-06	5.11E-06	8.00E-07	0.00E+00	7.55E-06	2.56E-07	8.24E-07	1.26E-07	1.21E-06	1.12E-08	6.29E-08	7.41E-09	8.15E-08
252	577333.66	4194126.02	1.65E-06	5.14E-06	8.04E-07	0.00E+00	7.59E-06	2.57E-07	8.28E-07	1.27E-07	1.21E-06	1.13E-08	6.32E-08	7.45E-09	8.20E-08
253	577324.63	4194123.82	1.64E-06	5.11E-06	8.01E-07	0.00E+00	7.56E-06	2.56E-07	8.24E-07	1.26E-07	1.21E-06	1.12E-08	6.29E-08	7.42E-09	8.16E-08
254	577315.6	4194121.62	1.62E-06	5.04E-06	7.90E-07	0.00E+00	7.45E-06	2.53E-07	8.13E-07	1.25E-07	1.19E-06	1.11E-08	6.20E-08	7.31E-09	8.05E-08
255	577306.56	4194119.42	1.59E-06	4.93E-06	7.72E-07	0.00E+00	7.29E-06	2.47E-07	7.95E-07	1.22E-07	1.16E-06	1.08E-08	6.07E-08	7.15E-09	7.87E-08
256	577361.6	4194126.12	1.47E-06	4.57E-06	7.16E-07	0.00E+00	6.76E-06	2.29E-07	7.37E-07	1.13E-07	1.08E-06	1.01E-08	5.63E-08	6.63E-09	7.29E-08
257	577369.11	4194131.52	1.48E-06	4.60E-06	7.20E-07	0.00E+00	6.79E-06	2.30E-07	7.41E-07	1.14E-07	1.09E-06	1.01E-08	5.66E-08	6.67E-09	7.33E-08
258	577376.61	4194136.93	1.47E-06	4.58E-06	7.17E-07	0.00E+00	6.77E-06	2.30E-07	7.38E-07	1.13E-07	1.08E-06	1.01E-08	5.64E-08	6.64E-09	7.31E-08
259	577384.12	4194142.33	1.46E-06	4.53E-06	7.09E-07	0.00E+00	6.70E-06	2.27E-07	7.30E-07	1.12E-07	1.07E-06	9.97E-09	5.57E-08	6.57E-09	7.23E-08
260	577391.62	4194147.74	1.43E-06	4.44E-06	6.96E-07	0.00E+00	6.57E-06	2.23E-07	7.17E-07	1.10E-07	1.05E-06	9.78E-09	5.47E-08	6.45E-09	7.09E-08
261	577399.12	4194153.14	1.39E-06	4.33E-06	6.78E-07	0.00E+00	6.40E-06	2.17E-07	6.99E-07	1.07E-07	1.02E-06	9.53E-09	5.33E-08	6.29E-09	6.91E-08
262	577406.63	4194158.55	1.35E-06	4.20E-06	6.58E-07	0.00E+00	6.21E-06	2.11E-07	6.78E-07	1.04E-07	9.92E-07	9.25E-09	5.17E-08	6.10E-09	6.71E-08
263	577414.13	4194163.95	1.31E-06	4.07E-06	6.37E-07	0.00E+00	6.01E-06	2.04E-07	6.55E-07	1.01E-07	9.60E-07	8.95E-09	5.00E-08	5.90E-09	6.49E-08
264	577421.64	4194169.36	1.26E-06	3.93E-06	6.15E-07	0.00E+00	5.81E-06	1.97E-07	6.33E-07	9.71E-08	9.27E-07	8.64E-09	4.83E-08	5.70E-09	6.27E-08
265	577429.14	4194174.76	1.22E-06	3.79E-06	5.93E-07	0.00E+00	5.60E-06	1.90E-07	6.11E-07	9.36E-08	8.94E-07	8.33E-09	4.66E-08	5.49E-09	6.04E-08
266	577436.64	4194180.17	1.17E-06	3.64E-06	5.70E-07	0.00E+00	5.38E-06	1.83E-07	5.87E-07	9.01E-08	8.60E-07	8.01E-09	4.48E-08	5.28E-09	5.81E-08
267	577456.52	4194218.29	1.16E-06	3.59E-06	5.62E-07	0.00E+00	5.31E-06	1.80E-07	5.79E-07	8.88E-08	8.48E-07	7.90E-09	4.42E-08	5.21E-09	5.73E-08
268	577458.14	4194227.4	1.17E-06	3.65E-06	5.71E-07	0.00E+00	5.39E-06	1.83E-07	5.88E-07	9.02E-08	8.61E-07	8.03E-09	4.49E-08	5.29E-09	5.82E-08
269	577459.76	4194236.5	1.19E-06	3.69E-06	5.77E-07	0.00E+00	5.45E-06	1.85E-07	5.94E-07	9.11E-08	8.70E-07	8.11E-09	4.54E-08	5.35E-09	5.88E-08
270	577461.38	4194245.61	1.19E-06	3.70E-06	5.80E-07	0.00E+00	5.47E-06	1.86E-07	5.97E-07	9.15E-08	8.74E-07	8.15E-09	4.56E-08	5.37E-09	5.91E-08
271	577463	4194254.71	1.19E-06	3.69E-06	5.78E-07	0.00E+00	5.46E-06	1.85E-07	5.95E-07	9.13E-08	8.72E-07	8.12E-09	4.54E-08	5.36E-09	5.89E-08
272	577464.62	4194263.82	1.18E-06	3.66E-06	5.73E-07	0.00E+00	5.41E-06	1.83E-07	5.90E-07	9.05E-08	8.64E-07	8.05E-09	4.50E-08	5.31E-09	5.84E-08
273	577466.25	4194272.92	1.16E-06	3.60E-06	5.63E-07	0.00E+00	5.32E-06	1.80E-07	5.80E-07	8.89E-08	8.49E-07	7.91E-09	4.43E-08	5.22E-09	5.74E-08
274	577467.87	4194282.03	1.13E-06	3.51E-06	5.50E-07	0.00E+00	5.19E-06	1.76E-07	5.66E-07	8.68E-08	8.29E-07	7.72E-09	4.32E-08	5.09E-09	5.60E-08
275	577469.49	4194291.13	1.09E-06	3.40E-06	5.33E-07	0.00E+00	5.03E-06	1.71E-07	5.48E-07	8.41E-08	8.03E-07	7.48E-09	4.19E-08	4.94E-09	5.43E-08
276	577471.11	4194300.24	1.05E-06	3.27E-06	5.13E-07	0.00E+00	4.84E-06	1.64E-07	5.28E-07	8.10E-08	7.73E-07	7.21E-09	4.03E-08	4.75E-09	5.23E-08
277	577354.1	4194120.71	1.45E-06	4.50E-06	7.04E-07	0.00E+00	6.65E-06	2.25E-07	7.25E-07	1.11E-07	1.06E-06	9.89E-09	5.53E-08	6.52E-09	7.18E-08
278	577345.07	4194118.51	1.46E-06	4.55E-06	7.13E-07	0.00E+00	6.73E-06	2.28E-07	7.34E-07	1.13E-07	1.07E-06	1.00E-08	5.60E-08	6.61E-09	7.27E-08
279	577336.03	4194116.31	1.47E-06	4.57E-06	7.16E-07	0.00E+00	6.75E-06	2.29E-07	7.37E-07	1.13E-07	1.08E-06	1.01E-08	5.62E-08	6.63E-09	7.29E-08
280	577327	4194114.11	1.46E-06	4.54E-06	7.12E-07	0.00E+00	6.72E-06	2.28E-07	7.33E-07	1.12E-07	1.07E-06	1.00E-08	5.59E-08	6.59E-09	7.25E-08
281	577317.96	4194111.9	1.44E-06	4.48E-06	7.02E-07	0.00E+00	6.62E-06	2.25E-07	7.23E-07	1.11E-07	1.06E-06	9.86E-09	5.52E-08	6.50E-09	7.15E-08
282	577308.93	4194109.7	1.41E-06	4.38E-06	6.87E-07	0.00E+00	6.48E-06	2.20E-07	7.07E-07	1.08E-07	1.04E-06	9.65E-09	5.40E-08	6.36E-09	7.00E-08
283	577363.87	4194116.33	1.32E-06	4.12E-06	6.45E-07	0.00E+00	6.09E-06	2.06E-07	6.64E-07	1.02E-07	9.72E-07	9.06E-09	5.07E-08	5.97E-09	6.57E-08
284	577371.27	4194121.66	1.34E-06	4.15E-06	6.51E-07	0.00E+00	6.14E-06	2.08E-07	6.70E-07	1.03E-07	9.81E-07	9.14E-09	5.11E-08	6.03E-09	6.63E-08
285	577378.68	4194126.99	1.34E-06	4.15E-06	6.51E-07	0.00E+00	6.14E-06	2.08E-07	6.70E-07	1.03E-07	9.81E-07	9.14E-09	5.11E-08	6.03E-09	6.63E-08
286	577386.08	4194132.33	1.33E-06	4.12E-06	6.46E-07	0.00E+00	6.09E-06	2.07E-07	6.65E-07	1.02E-07	9.73E-07	9.07E-09	5.07E-08	5.98E-09	6.58E-08
287	577393.49	4194137.66	1.31E-06	4.06E-06	6.36E-07	0.00E+00	6.01E-06	2.04E-07	6.55E-07	1.00E-07	9.59E-07	8.94E-09	5.00E-08	5.89E-09	6.48E-08
288	577400.89	4194142.99	1.28E-06	3.98E-06	6.23E-07	0.00E+00	5.88E-06	1.99E-07	6.41E-07	9.84E-08	9.39E-07	8.75E-09	4.90E-08	5.77E-09	6.35E-08
289	577408.29	4194148.33	1.25E-06	3.87E-06	6.07E-07	0.00E+00	5.73E-06	1.94E-07	6.25E-07	9.58E-08	9.15E-07	8.52E-09	4.77E-08	5.62E-09	6.18E-08
290	577415.7	4194153.66	1.21E-06	3.76E-06	5.89E-07	0.00E+00	5.56E-06	1.88E-07	6.06E-07	9.30E-08	8.88E-07	8.27E-09	4.63E-08	5.46E-09	6.00E-08
291	577423.1	4194158.99	1.17E-06	3.64E-06	5.70E-07	0.00E+00	5.38E-06	1.83E-07	5.87E-07	9.01E-08	8.60E-07	8.01E-09	4.48E-08	5.28E-09	5.81E-08
292	577430.5	4194164.32	1.13E-06	3.52E-06	5.52E-07	0.00E+00	5.21E-06	1.77E-07	5.68E-07	8.71E-08	8.32E-07	7.75E-09	4.34E-08	5.11E-09	5.62E-08
293	577437.91	4194169.66	1.09E-06	3.40E-06	5.32E-07	0.00E+00	5.03E-06	1.70E-07	5.48E-07	8.41E-08	8.03E-07	7.48E-09	4.18E-08	4.93E-09	5.42E-08
294	577445.31	4194174.99	1.05E-06	3.27E-06	5.13E-07	0.00E+00	4.84E-06	1.64E-07	5.28E-07	8.09E-08	7.73E-07	7.20E-09	4.03E-08	4.75E-09	5.22E-08
295	577452.71	4194180.32	1.01E-06	3.15E-06	4.93E-07	0.00E+00	4.65E-06	1.58E-07	5.07E-07	7.78E-08	7.43E-07	6.92E-09	3.87E-08	4.56E-09	5.02E-08
296	577464.92	4194212.6	1.04E-06	3.23E-06	5.06E-07	0.00E+00	4.78E-06	1.62E-07	5.21E-07	7.99E-08	7.63E-07	7.11E-09	3.98E-08	4.69E-09	5.16E-08
297	577466.52	4194221.59	1.06E-06	3.29E-06	5.15E-07	0.00E+00	4.86E-06	1.65E-07	5.30E-07	8.12E-08	7.76E-07	7.23E-09	4.04E-08	4.77E-09	5.24E-08
298	577468.12	4194230.57	1.07E-06	3.32E-06	5.21E-07	0.00E+00	4.91E-06	1.67E-07	5.36E-07	8.22E-08	7.85E-07	7.31E-09	4.09E-08	4.82E-09	5.31E-08
299	577469.72	4194239.55	1.08E-06	3.35E-06	5.24E-07	0.00E+00	4.95E-06	1.68E-07	5.40E-07	8.27E-08	7.90E-07	7.36E-09	4.12E-08	4.86E-09	5.34E-08
300	577471.32	4194248.53	1.08E-06	3.35E-06	5.25E-07	0.00E+00	4.95E-06	1.68E-07	5.40E-07	8.28E-08	7.91E-07	7.37E-09	4.12E-08	4.86E-09	5.35E-08
301	577472.92	4194257.52	1.07E-06	3.33E-06	5.22E-07	0.00E+00	4.92E-06	1.67E-07	5.37E-07	8.24E-08	7.87E-07	7.33E-09	4.10E-08	4.83E-09	5.32E-08
302	577474.51	4194266.5	1.06E-06	3.29E-06	5.16E-07	0.00E+00	4.87E-06	1.65E-07	5.31E-07	8.14E-08	7.77E-07	7.24E-09	4.05E-08	4.78E-09	5.25E-08
303	577476.11	4194275.48	1.04E-06	3.23E-06	5.06E-07	0.00E+00	4.78E-06	1.62E-07	5.21E-07	7.99E-08	7.63E-07	7.11E-09	3.98E-08	4.69E-09	5.16E-08
304	577477.71	4194284.47	1.01E-06	3.15E-06	4.93E-07	0.00E+00	4.66E-06	1.58E-07	5.08E-07	7.79E-08	7.44E-07	6.93E-09	3.88E-08	4.57E-09	5.03E-08
305	577479.31	4194293.45	9.82E-07	3.05E-06	4.78E-07	0.00E+00	4.51E-06	1.53E-07	4.92E-07	7.55E-08	7.21E-07	6.72E-09	3.76E-08	4.43E-09	4.87E-08
306	577480.91	4194302.43	9.46E-07	2.94E-06	4.60E-07	0.00E+00	4.35E-06	1.47E-07	4.74E-07	7.27E-08	6.94E-07	6.47E-09	3.62E-08	4.27E-09	4.69E-08
307	577356.47	4194111	1.30E-06	4.04E-06	6.33E-07	0.00E+00	5.98E-06	2.03E-07	6.52E-07	1.00E-07	9.54E-07	8.89E-09	4.98E-08	5.87E-09	6.45E-08
308	577347.43	4194108.79	1.31E-06	4.08E-06	6.39E-07	0.00E+00	6.03E-06	2.04E-07	6.58E-07	1.01E-07	9.63E-07	8.98E-09	5.02E-08	5.92E-09	6.51E-08
309	577338.4	4194106.59	1.31E-06	4.08E-06	6.40E-07	0.00E+00	6.04E-06	2.05E-07	6.58E-07	1.01E-07	9.64E-07	8.99E-09	5.03E-08	5.92E-09	6.52E-08
310	577329.37	4194104.39	1.31E-06	4.06E-06	6.36E-07	0.00E+00	6.00E-06	2.03E-07	6.54E-07	1.00E-07	9.58E-07	8.93E-09	5.00E-08	5.89E-09	6.48E-08
311	577320.33	4194102.19	1.29E-06	4.00E-06	6.27E-07	0.00E+00	5.92E-06	2.01E-07	6.45E-07	9.90E-08	9.45E-07	8.81E-09	4.93E-08	5.81E-09	6.39E-08
312	577311.3	4194099.99	1.26E-06	3.92E-06	6.13E-07	0.00E+00	5.79E-06	1.96E-07	6.32E-07	9.69E-08	9.25E-07	8.62E-09	4.82E-08	5.68E-09	6.25E-08
313	577366.15	4194106.55	1.20E-06	3.73E-06	5.84E-07	0.00E+00	5.51E-06	1.87E-07	6.01E-07	9.21E-08	8.80E-07	8.20E-09	4.59E-08	5.41E-09	5.95E-08
314	577373.47	4194111.82	1.21E-06	3.77E-06	5.90E-07	0.00E+00	5.57E-06	1.89E-07	6.08E-07	9.32E-08	8.90E-07	8.29E-09	4.64E-08	5.47E-09	6.02E-08
315	577380.79	4194117.09	1.22E-06	3.78E-06	5.92E-07	0.00E+00	5.59E-06	1.89E-07	6.09E-07	9.34E-08	8.92E-07	8.31E-09	4.65E-08	5.48E-09	6.03E-08
316	577388.1	4194122.36	1.21E-06	3.76E-06	5.89E-07	0.00E+00	5.56E-06	1.89E-07	6.06E-07	9.30E-08	8.88E-07	8.27E-09	4.63E-08	5.46E-09	6.00E-08
317	577395.42	4194127.63	1.20E-06	3.72E-06	5.82E-07	0.00E+00	5.50E-06	1.86E-07	6.00E-07	9.19E-08	8.78E-07	8.18E-09	4.58E-08	5.39E-09	5.93E-08
318	577402.73	4194132.9	1.18E-06	3.66E-06	5.73E-07	0.00E+00	5.41E-06	1.83E-07	5.90E-07	9.04E-08	8.63E-07	8.05E-09	4.50E-08	5.31E-09	5.84E-08
319	577410.05	4194138.17	1.15E-06	3.57E-06	5.60E-07	0.00E+00	5.28E-06	1.79E-07	5.76E-07	8.84E-08	8.44E-07	7.87E-09	4.40E-08	5.19E-09	5.71E-08
320	577417.37	4194143.44	1.12E-06	3.48E-06	5.45E-07	0.00E+00	5.15E-06	1.74E-07	5.61E-07	8.61E-08	8.22E-07	7.66E-09	4.28E-08	5.05E-09	5.55E-08
321	577424.68	4194148.71	1.09E-06	3.38E-06	5.29E-07	0.00E+00	5.00E-06	1.69E-07	5.45E-07	8.36E-08	7.98E-07	7.44E-09	4.16E-08	4.90E-09	5.40E-08
322	577432	4194153.98	1.05E-06	3.28E-06	5.13E-07	0.00E+00	4.85E-06	1.64E-07	5.29E-07	8.11E-08	7.74E-07	7.21E-09	4.03E-08	4.76E-09	5.23E-08
323	577439.32	4194159.25	1.02E-06	3.17E-06	4.97E-07	0.00E+00	4.69E-06	1.59E-07	5.11E-07	7.84E-08	7.49E-07	6.98E-09	3.90E-08	4.60E-09	5.06E-08
324	577446.63	4194164.52	9.86E-07	3.06E-06	4.80E-07	0.00E+00	4.53E-06	1.54E-07	4.94E-07	7.58E-08	7.23E-07	6.74E-09	3.77E-08	4.45E-09	4.89E-08
325	577453.95	4194169.79	9.51E-07	2.96E-06	4.63E-07	0.00E+00	4.37E-06	1.48E-07	4.77E-07	7.31E-08	6.98E-07	6.50E-09	3.64E-08	4.29E-09	4.72E-08
326	577461.26	4194175.06	9.16E-07	2.85E-06	4.46E-07	0.00E+00	4.21E-06	1.43E-07	4.59E-07	7.04E-08	6.72E-07	6.26E-09	3.50E-08	4.13E-09	4.54E-08
327	577476.49	4194224.72	9.69E-07	3.01E-06	4.72E-07	0.00E+00	4.45E-06	1.51E-07	4.86E-07	7.45E-08	7.11E-07	6.63E-09	3.71E-08	4.37E-09	4.81E-08
328	577479.65	4194242.47	9.80E-07	3.05E-06	4.77E-07	0.00E+00	4.50E-06	1.53E-07	4.91E-07	7.53E-08	7.19E-07	6.70E-09	3.75E-08	4.42E-09	4.86E-08

329	577482.81	4194260.23	9.70E-07	3.02E-06	4.72E-07	0.00E+00	4.46E-06	1.51E-07	4.86E-07	7.46E-08	7.12E-07	6.64E-09	3.71E-08	4.38E-09	4.81E-08
330	577485.97	4194277.98	9.38E-07	2.92E-06	4.57E-07	0.00E+00	4.31E-06	1.46E-07	4.70E-07	7.21E-08	6.88E-07	6.42E-09	3.59E-08	4.23E-09	4.65E-08
331	577489.13	4194295.73	8.86E-07	2.75E-06	4.31E-07	0.00E+00	4.07E-06	1.38E-07	4.44E-07	6.81E-08	6.50E-07	6.06E-09	3.39E-08	3.99E-09	4.39E-08
332	577358.84	4194101.28	1.17E-06	3.65E-06	5.72E-07	0.00E+00	5.40E-06	1.83E-07	5.89E-07	9.03E-08	8.62E-07	8.03E-09	4.49E-08	5.30E-09	5.83E-08
333	577349.8	4194099.08	1.18E-06	3.68E-06	5.76E-07	0.00E+00	5.43E-06	1.84E-07	5.93E-07	9.09E-08	8.68E-07	8.09E-09	4.52E-08	5.33E-09	5.87E-08
334	577340.77	4194096.88	1.18E-06	3.67E-06	5.75E-07	0.00E+00	5.43E-06	1.84E-07	5.92E-07	9.08E-08	8.67E-07	8.08E-09	4.52E-08	5.33E-09	5.86E-08
335	577331.73	4194094.67	1.17E-06	3.64E-06	5.71E-07	0.00E+00	5.39E-06	1.83E-07	5.88E-07	9.01E-08	8.60E-07	8.02E-09	4.49E-08	5.29E-09	5.82E-08
336	577322.7	4194092.47	1.16E-06	3.59E-06	5.62E-07	0.00E+00	5.31E-06	1.80E-07	5.79E-07	8.88E-08	8.48E-07	7.90E-09	4.42E-08	5.21E-09	5.73E-08
337	577313.67	4194090.27	1.13E-06	3.51E-06	5.50E-07	0.00E+00	5.20E-06	1.76E-07	5.67E-07	8.69E-08	8.30E-07	7.73E-09	4.33E-08	5.10E-09	5.61E-08
338	577368.44	4194096.78	1.09E-06	3.38E-06	5.29E-07	0.00E+00	5.00E-06	1.69E-07	5.45E-07	8.36E-08	7.98E-07	7.44E-09	4.16E-08	4.90E-09	5.39E-08
339	577382.92	4194107.21	1.11E-06	3.45E-06	5.40E-07	0.00E+00	5.09E-06	1.73E-07	5.56E-07	8.52E-08	8.14E-07	7.58E-09	4.24E-08	5.00E-09	5.50E-08
340	577397.4	4194117.64	1.10E-06	3.41E-06	5.34E-07	0.00E+00	5.04E-06	1.71E-07	5.50E-07	8.43E-08	8.05E-07	7.50E-09	4.20E-08	4.95E-09	5.44E-08
341	577411.89	4194128.07	1.06E-06	3.30E-06	5.17E-07	0.00E+00	4.88E-06	1.65E-07	5.32E-07	8.16E-08	7.79E-07	7.26E-09	4.06E-08	4.79E-09	5.26E-08
342	577426.37	4194138.5	1.01E-06	3.14E-06	4.92E-07	0.00E+00	4.64E-06	1.57E-07	5.06E-07	7.77E-08	7.41E-07	6.91E-09	3.87E-08	4.56E-09	5.01E-08
343	577440.85	4194148.93	9.53E-07	2.96E-06	4.64E-07	0.00E+00	4.38E-06	1.48E-07	4.78E-07	7.32E-08	6.99E-07	6.52E-09	3.65E-08	4.30E-09	4.73E-08
344	577455.33	4194159.36	8.93E-07	2.78E-06	4.35E-07	0.00E+00	4.10E-06	1.39E-07	4.48E-07	6.86E-08	6.55E-07	6.11E-09	3.42E-08	4.03E-09	4.43E-08
345	577469.81	4194169.79	8.33E-07	2.59E-06	4.06E-07	0.00E+00	3.83E-06	1.30E-07	4.18E-07	6.40E-08	6.11E-07	5.70E-09	3.19E-08	3.76E-09	4.13E-08
346	577478.61	4194183.79	8.23E-07	2.56E-06	4.00E-07	0.00E+00	3.78E-06	1.28E-07	4.12E-07	6.32E-08	6.04E-07	5.63E-09	3.15E-08	3.71E-09	4.08E-08
347	577486.43	4194227.72	8.90E-07	2.77E-06	4.33E-07	0.00E+00	4.09E-06	1.39E-07	4.46E-07	6.84E-08	6.53E-07	6.08E-09	3.40E-08	4.01E-09	4.41E-08
348	577489.56	4194245.28	8.95E-07	2.78E-06	4.35E-07	0.00E+00	4.11E-06	1.39E-07	4.48E-07	6.88E-08	6.56E-07	6.12E-09	3.42E-08	4.03E-09	4.44E-08
349	577492.69	4194262.85	8.82E-07	2.74E-06	4.29E-07	0.00E+00	4.05E-06	1.37E-07	4.42E-07	6.78E-08	6.47E-07	6.03E-09	3.37E-08	3.98E-09	4.37E-08
350	577494.26	4194271.64	8.68E-07	2.70E-06	4.23E-07	0.00E+00	3.99E-06	1.35E-07	4.35E-07	6.67E-08	6.37E-07	5.94E-09	3.32E-08	3.91E-09	4.31E-08
351	577497.39	4194289.21	8.28E-07	2.57E-06	4.03E-07	0.00E+00	3.80E-06	1.29E-07	4.15E-07	6.36E-08	6.08E-07	5.66E-09	3.17E-08	3.73E-09	4.11E-08
352	577500.52	4194306.78	7.74E-07	2.41E-06	3.77E-07	0.00E+00	3.56E-06	1.21E-07	3.88E-07	5.95E-08	5.68E-07	5.30E-09	2.96E-08	3.49E-09	3.84E-08
353	577352.17	4194089.36	1.07E-06	3.33E-06	5.21E-07	0.00E+00	4.92E-06	1.67E-07	5.36E-07	8.23E-08	7.85E-07	7.32E-09	4.09E-08	4.83E-09	5.31E-08
354	577343.14	4194087.16	1.07E-06	3.32E-06	5.20E-07	0.00E+00	4.91E-06	1.66E-07	5.35E-07	8.21E-08	7.84E-07	7.30E-09	4.09E-08	4.82E-09	5.30E-08
355	577334.1	4194084.96	1.06E-06	3.29E-06	5.15E-07	0.00E+00	4.86E-06	1.65E-07	5.30E-07	8.13E-08	7.76E-07	7.24E-09	4.05E-08	4.77E-09	5.25E-08
356	577325.07	4194082.76	1.04E-06	3.24E-06	5.07E-07	0.00E+00	4.79E-06	1.62E-07	5.22E-07	8.01E-08	7.64E-07	7.12E-09	3.98E-08	4.70E-09	5.17E-08
357	577316.03	4194080.55	1.02E-06	3.17E-06	4.96E-07	0.00E+00	4.68E-06	1.59E-07	5.11E-07	7.84E-08	7.48E-07	6.97E-09	3.90E-08	4.60E-09	5.06E-08
358	577370.75	4194087.02	9.90E-07	3.08E-06	4.82E-07	0.00E+00	4.55E-06	1.54E-07	4.96E-07	7.61E-08	7.26E-07	6.77E-09	3.79E-08	4.46E-09	4.91E-08
359	577385.09	4194097.35	1.01E-06	3.15E-06	4.93E-07	0.00E+00	4.65E-06	1.58E-07	5.08E-07	7.79E-08	7.43E-07	6.93E-09	3.88E-08	4.57E-09	5.02E-08
360	577399.44	4194107.68	1.01E-06	3.13E-06	4.91E-07	0.00E+00	4.63E-06	1.57E-07	5.05E-07	7.75E-08	7.40E-07	6.89E-09	3.86E-08	4.54E-09	5.00E-08
361	577413.78	4194118.02	9.81E-07	3.05E-06	4.77E-07	0.00E+00	4.51E-06	1.53E-07	4.92E-07	7.54E-08	7.20E-07	6.71E-09	3.75E-08	4.42E-09	4.87E-08
362	577428.13	4194128.35	9.39E-07	2.92E-06	4.57E-07	0.00E+00	4.32E-06	1.46E-07	4.71E-07	7.22E-08	6.89E-07	6.42E-09	3.59E-08	4.24E-09	4.66E-08
363	577442.47	4194138.68	8.91E-07	2.77E-06	4.34E-07	0.00E+00	4.09E-06	1.39E-07	4.46E-07	6.85E-08	6.54E-07	6.09E-09	3.41E-08	4.02E-09	4.42E-08
364	577456.82	4194149.02	8.39E-07	2.61E-06	4.08E-07	0.00E+00	3.85E-06	1.31E-07	4.20E-07	6.45E-08	6.16E-07	5.74E-09	3.21E-08	3.78E-09	4.16E-08
365	577471.17	4194159.35	7.87E-07	2.45E-06	3.83E-07	0.00E+00	3.62E-06	1.23E-07	3.94E-07	6.05E-08	5.78E-07	5.38E-09	3.01E-08	3.55E-09	3.90E-08
366	577487.06	4194178.39	7.52E-07	2.34E-06	3.66E-07	0.00E+00	3.46E-06	1.17E-07	3.77E-07	5.78E-08	5.52E-07	5.14E-09	2.88E-08	3.39E-09	3.73E-08
367	577496.36	4194230.6	8.18E-07	2.54E-06	3.98E-07	0.00E+00	3.76E-06	1.27E-07	4.10E-07	6.29E-08	6.00E-07	5.59E-09	3.13E-08	3.69E-09	4.06E-08
368	577499.46	4194248.01	8.18E-07	2.54E-06	3.98E-07	0.00E+00	3.76E-06	1.27E-07	4.10E-07	6.29E-08	6.00E-07	5.60E-09	3.13E-08	3.69E-09	4.06E-08
369	577502.56	4194265.42	8.03E-07	2.50E-06	3.91E-07	0.00E+00	3.69E-06	1.25E-07	4.03E-07	6.17E-08	5.90E-07	5.49E-09	3.07E-08	3.62E-09	3.99E-08
370	577505.66	4194282.82	7.73E-07	2.40E-06	3.76E-07	0.00E+00	3.55E-06	1.20E-07	3.88E-07	5.94E-08	5.67E-07	5.29E-09	2.96E-08	3.49E-09	3.84E-08
371	577508.76	4194300.23	7.31E-07	2.27E-06	3.56E-07	0.00E+00	3.36E-06	1.14E-07	3.66E-07	5.62E-08	5.36E-07	5.00E-09	2.80E-08	3.30E-09	3.62E-08
372	577354.54	4194079.65	9.72E-07	3.02E-06	4.73E-07	0.00E+00	4.47E-06	1.51E-07	4.87E-07	7.47E-08	7.13E-07	6.65E-09	3.72E-08	4.38E-09	4.82E-08
373	577345.5	4194077.44	9.69E-07	3.01E-06	4.72E-07	0.00E+00	4.45E-06	1.51E-07	4.86E-07	7.45E-08	7.11E-07	6.63E-09	3.71E-08	4.37E-09	4.81E-08
374	577336.47	4194075.24	9.59E-07	2.98E-06	4.67E-07	0.00E+00	4.41E-06	1.49E-07	4.81E-07	7.37E-08	7.04E-07	6.56E-09	3.67E-08	4.32E-09	4.76E-08
375	577327.44	4194073.04	9.44E-07	2.93E-06	4.59E-07	0.00E+00	4.34E-06	1.47E-07	4.73E-07	7.25E-08	6.92E-07	6.45E-09	3.61E-08	4.25E-09	4.68E-08
376	577318.4	4194070.84	9.24E-07	2.87E-06	4.50E-07	0.00E+00	4.25E-06	1.44E-07	4.63E-07	7.10E-08	6.78E-07	6.32E-09	3.54E-08	4.17E-09	4.58E-08
377	577373.47	4194077.56	9.04E-07	2.81E-06	4.40E-07	0.00E+00	4.16E-06	1.41E-07	4.53E-07	6.95E-08	6.64E-07	6.18E-09	3.46E-08	4.08E-09	4.49E-08
378	577381	4194082.98	9.20E-07	2.86E-06	4.48E-07	0.00E+00	4.23E-06	1.43E-07	4.61E-07	7.07E-08	6.75E-07	6.29E-09	3.52E-08	4.15E-09	4.56E-08
379	577388.54	4194088.41	9.29E-07	2.89E-06	4.52E-07	0.00E+00	4.27E-06	1.45E-07	4.66E-07	7.14E-08	6.82E-07	6.36E-09	3.56E-08	4.19E-09	4.61E-08
380	577396.07	4194093.83	9.31E-07	2.89E-06	4.53E-07	0.00E+00	4.28E-06	1.45E-07	4.67E-07	7.16E-08	6.83E-07	6.37E-09	3.56E-08	4.20E-09	4.62E-08
381	577403.6	4194099.26	9.27E-07	2.88E-06	4.51E-07	0.00E+00	4.26E-06	1.44E-07	4.64E-07	7.12E-08	6.80E-07	6.34E-09	3.55E-08	4.18E-09	4.60E-08
382	577411.13	4194104.68	9.16E-07	2.85E-06	4.46E-07	0.00E+00	4.21E-06	1.43E-07	4.59E-07	7.04E-08	6.72E-07	6.27E-09	3.50E-08	4.13E-09	4.54E-08
383	577418.66	4194110.11	9.02E-07	2.80E-06	4.39E-07	0.00E+00	4.14E-06	1.40E-07	4.52E-07	6.93E-08	6.62E-07	6.17E-09	3.45E-08	4.07E-09	4.47E-08
384	577426.19	4194115.53	8.84E-07	2.75E-06	4.30E-07	0.00E+00	4.06E-06	1.38E-07	4.43E-07	6.79E-08	6.49E-07	6.05E-09	3.38E-08	3.99E-09	4.39E-08
385	577433.72	4194120.96	8.64E-07	2.68E-06	4.21E-07	0.00E+00	3.97E-06	1.35E-07	4.33E-07	6.64E-08	6.34E-07	5.91E-09	3.30E-08	3.90E-09	4.28E-08
386	577441.26	4194126.38	8.42E-07	2.62E-06	4.10E-07	0.00E+00	3.87E-06	1.31E-07	4.22E-07	6.47E-08	6.18E-07	5.76E-09	3.22E-08	3.80E-09	4.18E-08
387	577448.79	4194131.81	8.19E-07	2.54E-06	3.99E-07	0.00E+00	3.76E-06	1.28E-07	4.10E-07	6.29E-08	6.01E-07	5.60E-09	3.13E-08	3.69E-09	4.06E-08
388	577456.32	4194137.23	7.95E-07	2.47E-06	3.87E-07	0.00E+00	3.65E-06	1.24E-07	3.98E-07	6.11E-08	5.83E-07	5.44E-09	3.04E-08	3.59E-09	3.94E-08
389	577463.85	4194142.66	7.71E-07	2.40E-06	3.75E-07	0.00E+00	3.54E-06	1.20E-07	3.86E-07	5.93E-08	5.66E-07	5.27E-09	2.95E-08	3.48E-09	3.82E-08
390	577471.38	4194148.08	7.47E-07	2.32E-06	3.64E-07	0.00E+00	3.43E-06	1.16E-07	3.75E-07	5.74E-08	5.48E-07	5.11E-09	2.86E-08	3.37E-09	3.71E-08
391	577478.91	4194153.51	7.24E-07	2.25E-06	3.52E-07	0.00E+00	3.32E-06	1.13E-07	3.63E-07	5.56E-08	5.31E-07	4.95E-09	2.77E-08	3.26E-09	3.59E-08
392	577486.44	4194158.93	7.00E-07	2.17E-06	3.41E-07	0.00E+00	3.21E-06	1.09E-07	3.51E-07	5.38E-08	5.13E-07	4.78E-09	2.68E-08	3.15E-09	3.47E-08
393	577495.6	4194173.5	6.91E-07	2.15E-06	3.36E-07	0.00E+00	3.17E-06	1.08E-07	3.46E-07	5.31E-08	5.07E-07	4.72E-09	2.64E-08	3.11E-09	3.43E-08
394	577497.23	4194182.64	7.05E-07	2.19E-06	3.43E-07	0.00E+00	3.24E-06	1.10E-07	3.53E-07	5.42E-08	5.17E-07	4.82E-09	2.70E-08	3.18E-09	3.50E-08
395	577498.86	4194191.77	7.18E-07	2.23E-06	3.49E-07	0.00E+00	3.30E-06	1.12E-07	3.60E-07	5.52E-08	5.27E-07	4.91E-09	2.75E-08	3.24E-09	3.56E-08
396	577503.74	4194219.19	7.47E-07	2.32E-06	3.64E-07	0.00E+00	3.43E-06	1.16E-07	3.74E-07	5.74E-08	5.48E-07	5.11E-09	2.86E-08	3.37E-09	3.71E-08
397	577505.37	4194228.33	7.52E-07	2.34E-06	3.66E-07	0.00E+00	3.46E-06	1.17E-07	3.77E-07	5.78E-08	5.52E-07	5.14E-09	2.88E-08	3.39E-09	3.73E-08
398	577507	4194237.47	7.54E-07	2.34E-06	3.67E-07	0.00E+00	3.46E-06	1.17E-07	3.78E-07	5.79E-08	5.53E-07	5.16E-09	2.88E-08	3.40E-09	3.74E-08
399	577508.62	4194246.6	7.52E-07	2.34E-06	3.66E-07	0.00E+00	3.46E-06	1.17E-07	3.77E-07	5.78E-08	5.52E-07	5.14E-09	2.88E-08	3.39E-09	3.73E-08
400	577510.25	4194255.74	7.47E-07	2.32E-06	3.64E-07	0.00E+00	3.43E-06	1.16E-07	3.74E-07	5.74E-08	5.48E-07	5.11E-09	2.86E-08	3.37E-09	3.71E-08
401	577511.88	4194264.88	7.38E-07	2.29E-06	3.59E-07	0.00E+00	3.39E-06	1.15E-07	3.70E-07	5.67E-08	5.42E-07	5.05E-09	2.82E-08	3.33E-09	3.66E-08
402	577513.51	4194274.02	7.26E-07	2.26E-06	3.53E-07	0.00E+00	3.33E-06	1.13E-07	3.64E-07	5.58E-08	5.33E-07	4.96E-09	2.78E-08	3.27E-09	3.60E-08
403	577515.13	4194283.16	7.10E-07	2.21E-06	3.46E-07	0.00E+00	3.26E-06	1.11E-07	3.56E-07	5.46E-08	5.21E-07	4.86E-09	2.72E-08	3.20E-09	3.52E-08
404	577516.76	4194292.29	6.91E-07	2.15E-06	3.37E-07	0.00E+00	3.18E-06	1.08E-07	3.46E-07	5.31E-08	5.07E-07	4.73E-09	2.64E-08	3.12E-09	3.43E-08
405	577518.39	4194301.43	6.70E-07	2.08E-06	3.26E-07	0.00E+00	3.08E-06	1.04E-07	3.36E-07	5.15E-08	4.92E-07	4.58E-09	2.56E-08	3.02E-09	3.32E-08
406	577520.02	4194310.57	6.46E-07	2.01E-06	3.15E-07	0.00E+00	2.97E-06	1.01E-07	3.24E-07	4.97E-08	4.74E-07	4.42E-09	2.47E-08	2.91E-09	3.21E-08
407	577365.94	4194072.13	8.84E-07	2.75E-06	4.30E-07	0.00E+00	4.06E-06	1.38E-07	4.43E-07	6.79E-08	6.48E-07	6.04E-09	3.38E-08	3.98E-09	4.38E-08
408	577356.91	4194069.93	8.85E-07	2.75E-06	4.31E-07	0.00E+00	4.07E-06	1.38E-07	4.44E-07	6.80E-08	6.50E-07	6.05E-09	3.39E-08	3.99E-09	4.39E-08
409	577347.87	4194067.73	8.81E-07	2.74E-06	4.29E-07	0.00E+00	4.05E-06	1.37E-07	4.42E-07	6.77E-08	6.47E-07	6.03E-09	3.37E-08	3.97E-09	4.37E-08
410	577338.84	4194065.53	8.72E-07	2.71E-06	4.24E-07	0.00E+00	4.01E-06	1.36E-07	4.37E-07	6.70E-08	6.40E-07	5.96E-09	3.34E-08	3.93E-09	4.32E-08
411	577329.8	4194063.33	8.58E-07	2.67E-06	4.18E-07	0.00E+00	3.94E-06	1.34E-07	4.30E-07	6.60E-08	6.30E-07	5.87E-09	3.28E-08	3.87E-09	4.26E-08

412	577320.77	4194061.12	8.41E-07	2.62E-06	4.10E-07	0.00E+00	3.87E-06	1.31E-07	4.22E-07	6.47E-08	6.17E-07	5.75E-09	3.22E-08	3.79E-09	4.17E-08
413	577375.76	4194067.79	8.29E-07	2.58E-06	4.04E-07	0.00E+00	3.81E-06	1.29E-07	4.16E-07	6.37E-08	6.08E-07	5.67E-09	3.17E-08	3.74E-09	4.11E-08
414	577383.21	4194073.15	8.44E-07	2.62E-06	4.11E-07	0.00E+00	3.88E-06	1.32E-07	4.23E-07	6.49E-08	6.20E-07	5.77E-09	3.23E-08	3.81E-09	4.19E-08
415	577390.66	4194078.52	8.54E-07	2.66E-06	4.16E-07	0.00E+00	3.93E-06	1.33E-07	4.28E-07	6.57E-08	6.27E-07	5.84E-09	3.27E-08	3.85E-09	4.24E-08
416	577398.12	4194083.89	8.58E-07	2.67E-06	4.18E-07	0.00E+00	3.94E-06	1.34E-07	4.30E-07	6.60E-08	6.30E-07	5.87E-09	3.28E-08	3.87E-09	4.26E-08
417	577405.57	4194089.26	8.57E-07	2.66E-06	4.17E-07	0.00E+00	3.94E-06	1.33E-07	4.29E-07	6.58E-08	6.29E-07	5.86E-09	3.28E-08	3.86E-09	4.25E-08
418	577413.02	4194094.62	8.49E-07	2.64E-06	4.13E-07	0.00E+00	3.90E-06	1.32E-07	4.26E-07	6.53E-08	6.23E-07	5.81E-09	3.25E-08	3.83E-09	4.21E-08
419	577420.47	4194099.99	8.38E-07	2.60E-06	4.08E-07	0.00E+00	3.85E-06	1.31E-07	4.20E-07	6.44E-08	6.15E-07	5.73E-09	3.21E-08	3.78E-09	4.16E-08
420	577427.92	4194105.36	8.23E-07	2.56E-06	4.01E-07	0.00E+00	3.78E-06	1.28E-07	4.13E-07	6.33E-08	6.04E-07	5.63E-09	3.15E-08	3.71E-09	4.08E-08
421	577435.37	4194110.73	8.06E-07	2.51E-06	3.93E-07	0.00E+00	3.71E-06	1.26E-07	4.04E-07	6.20E-08	5.92E-07	5.52E-09	3.09E-08	3.64E-09	4.00E-08
422	577442.83	4194116.09	7.88E-07	2.45E-06	3.84E-07	0.00E+00	3.62E-06	1.23E-07	3.95E-07	6.06E-08	5.78E-07	5.39E-09	3.01E-08	3.55E-09	3.91E-08
423	577450.28	4194121.46	7.68E-07	2.39E-06	3.74E-07	0.00E+00	3.53E-06	1.20E-07	3.85E-07	5.91E-08	5.64E-07	5.25E-09	2.94E-08	3.46E-09	3.81E-08
424	577457.73	4194126.83	7.48E-07	2.32E-06	3.64E-07	0.00E+00	3.44E-06	1.17E-07	3.75E-07	5.75E-08	5.49E-07	5.11E-09	2.86E-08	3.37E-09	3.71E-08
425	577465.18	4194132.2	7.27E-07	2.26E-06	3.54E-07	0.00E+00	3.34E-06	1.13E-07	3.64E-07	5.59E-08	5.34E-07	4.97E-09	2.78E-08	3.28E-09	3.61E-08
426	577472.63	4194137.57	7.07E-07	2.20E-06	3.44E-07	0.00E+00	3.25E-06	1.10E-07	3.54E-07	5.43E-08	5.19E-07	4.83E-09	2.70E-08	3.19E-09	3.51E-08
427	577480.09	4194142.93	6.86E-07	2.13E-06	3.34E-07	0.00E+00	3.15E-06	1.07E-07	3.44E-07	5.27E-08	5.03E-07	4.69E-09	2.62E-08	3.09E-09	3.40E-08
428	577487.54	4194148.3	6.65E-07	2.07E-06	3.24E-07	0.00E+00	3.05E-06	1.04E-07	3.33E-07	5.11E-08	4.88E-07	4.55E-09	2.54E-08	3.00E-09	3.30E-08
429	577494.99	4194153.67	6.43E-07	2.00E-06	3.13E-07	0.00E+00	2.96E-06	1.00E-07	3.22E-07	4.95E-08	4.72E-07	4.40E-09	2.46E-08	2.90E-09	3.19E-08
430	577504.05	4194168.08	6.35E-07	1.98E-06	3.09E-07	0.00E+00	2.92E-06	9.90E-08	3.18E-07	4.88E-08	4.66E-07	4.35E-09	2.43E-08	2.87E-09	3.15E-08
431	577505.66	4194177.12	6.48E-07	2.01E-06	3.15E-07	0.00E+00	2.98E-06	1.01E-07	3.25E-07	4.98E-08	4.76E-07	4.43E-09	2.48E-08	2.92E-09	3.21E-08
432	577507.27	4194186.16	6.60E-07	2.05E-06	3.21E-07	0.00E+00	3.03E-06	1.03E-07	3.31E-07	5.07E-08	4.84E-07	4.51E-09	2.52E-08	2.97E-09	3.27E-08
433	577513.71	4194222.33	6.92E-07	2.15E-06	3.37E-07	0.00E+00	3.18E-06	1.08E-07	3.47E-07	5.32E-08	5.08E-07	4.73E-09	2.65E-08	3.12E-09	3.43E-08
434	577515.32	4194231.37	6.95E-07	2.16E-06	3.38E-07	0.00E+00	3.19E-06	1.08E-07	3.48E-07	5.34E-08	5.10E-07	4.75E-09	2.66E-08	3.13E-09	3.45E-08
435	577516.93	4194240.41	6.95E-07	2.16E-06	3.38E-07	0.00E+00	3.19E-06	1.08E-07	3.48E-07	5.34E-08	5.10E-07	4.75E-09	2.66E-08	3.13E-09	3.45E-08
436	577518.54	4194249.45	6.92E-07	2.15E-06	3.37E-07	0.00E+00	3.18E-06	1.08E-07	3.47E-07	5.32E-08	5.08E-07	4.73E-09	2.65E-08	3.12E-09	3.43E-08
437	577520.16	4194258.49	6.86E-07	2.13E-06	3.34E-07	0.00E+00	3.15E-06	1.07E-07	3.44E-07	5.27E-08	5.03E-07	4.69E-09	2.62E-08	3.09E-09	3.40E-08
438	577521.77	4194267.53	6.77E-07	2.10E-06	3.30E-07	0.00E+00	3.11E-06	1.05E-07	3.39E-07	5.20E-08	4.97E-07	4.63E-09	2.59E-08	3.05E-09	3.36E-08
439	577523.38	4194276.58	6.65E-07	2.07E-06	3.24E-07	0.00E+00	3.06E-06	1.04E-07	3.33E-07	5.11E-08	4.88E-07	4.55E-09	2.54E-08	3.00E-09	3.30E-08
440	577524.99	4194285.62	6.50E-07	2.02E-06	3.17E-07	0.00E+00	2.99E-06	1.01E-07	3.26E-07	5.00E-08	4.77E-07	4.45E-09	2.49E-08	2.93E-09	3.23E-08
441	577526.6	4194294.66	6.33E-07	1.97E-06	3.08E-07	0.00E+00	2.91E-06	9.87E-08	3.17E-07	4.87E-08	4.65E-07	4.33E-09	2.42E-08	2.86E-09	3.14E-08
442	577528.21	4194303.7	6.14E-07	1.91E-06	2.99E-07	0.00E+00	2.82E-06	9.56E-08	3.07E-07	4.72E-08	4.50E-07	4.20E-09	2.35E-08	2.77E-09	3.04E-08
443	577368.31	4194062.42	8.09E-07	2.52E-06	3.94E-07	0.00E+00	3.72E-06	1.26E-07	4.06E-07	6.22E-08	5.94E-07	5.54E-09	3.10E-08	3.65E-09	4.02E-08
444	577359.27	4194060.22	8.09E-07	2.52E-06	3.94E-07	0.00E+00	3.72E-06	1.26E-07	4.06E-07	6.22E-08	5.94E-07	5.53E-09	3.10E-08	3.65E-09	4.01E-08
445	577350.24	4194058.01	8.04E-07	2.50E-06	3.92E-07	0.00E+00	3.70E-06	1.25E-07	4.03E-07	6.18E-08	5.90E-07	5.50E-09	3.08E-08	3.63E-09	3.99E-08
446	577341.21	4194055.81	7.95E-07	2.47E-06	3.87E-07	0.00E+00	3.65E-06	1.24E-07	3.99E-07	6.11E-08	5.84E-07	5.44E-09	3.04E-08	3.59E-09	3.94E-08
447	577332.17	4194053.61	7.83E-07	2.43E-06	3.81E-07	0.00E+00	3.60E-06	1.22E-07	3.92E-07	6.02E-08	5.75E-07	5.36E-09	3.00E-08	3.53E-09	3.88E-08
448	577323.14	4194051.41	7.69E-07	2.39E-06	3.74E-07	0.00E+00	3.53E-06	1.20E-07	3.85E-07	5.91E-08	5.64E-07	5.26E-09	2.94E-08	3.47E-09	3.81E-08
449	577378.06	4194058.02	7.62E-07	2.37E-06	3.71E-07	0.00E+00	3.50E-06	1.19E-07	3.82E-07	5.86E-08	5.59E-07	5.21E-09	2.92E-08	3.44E-09	3.78E-08
450	577385.44	4194063.33	7.77E-07	2.41E-06	3.78E-07	0.00E+00	3.57E-06	1.21E-07	3.89E-07	5.97E-08	5.70E-07	5.31E-09	2.97E-08	3.50E-09	3.85E-08
451	577392.82	4194068.65	7.87E-07	2.45E-06	3.83E-07	0.00E+00	3.62E-06	1.23E-07	3.94E-07	6.05E-08	5.77E-07	5.38E-09	3.01E-08	3.55E-09	3.90E-08
452	577400.2	4194073.97	7.93E-07	2.46E-06	3.86E-07	0.00E+00	3.64E-06	1.24E-07	3.97E-07	6.09E-08	5.82E-07	5.42E-09	3.03E-08	3.57E-09	3.93E-08
453	577407.58	4194079.28	7.93E-07	2.47E-06	3.86E-07	0.00E+00	3.64E-06	1.24E-07	3.97E-07	6.10E-08	5.82E-07	5.42E-09	3.03E-08	3.58E-09	3.93E-08
454	577414.96	4194084.6	7.89E-07	2.45E-06	3.84E-07	0.00E+00	3.62E-06	1.23E-07	3.95E-07	6.06E-08	5.79E-07	5.39E-09	3.02E-08	3.56E-09	3.91E-08
455	577422.34	4194089.92	7.80E-07	2.42E-06	3.80E-07	0.00E+00	3.58E-06	1.22E-07	3.91E-07	6.00E-08	5.72E-07	5.34E-09	2.98E-08	3.52E-09	3.87E-08
456	577429.72	4194095.23	7.68E-07	2.39E-06	3.74E-07	0.00E+00	3.53E-06	1.20E-07	3.85E-07	5.91E-08	5.64E-07	5.25E-09	2.94E-08	3.47E-09	3.81E-08
457	577437.1	4194100.55	7.54E-07	2.34E-06	3.67E-07	0.00E+00	3.47E-06	1.18E-07	3.78E-07	5.80E-08	5.53E-07	5.16E-09	2.89E-08	3.40E-09	3.74E-08
458	577444.48	4194105.87	7.38E-07	2.29E-06	3.59E-07	0.00E+00	3.39E-06	1.15E-07	3.70E-07	5.67E-08	5.42E-07	5.05E-09	2.82E-08	3.33E-09	3.66E-08
459	577451.86	4194111.18	7.21E-07	2.24E-06	3.51E-07	0.00E+00	3.32E-06	1.12E-07	3.62E-07	5.55E-08	5.29E-07	4.93E-09	2.76E-08	3.25E-09	3.58E-08
460	577459.24	4194116.5	7.04E-07	2.19E-06	3.43E-07	0.00E+00	3.23E-06	1.10E-07	3.53E-07	5.41E-08	5.17E-07	4.81E-09	2.69E-08	3.17E-09	3.49E-08
461	577466.62	4194121.81	6.86E-07	2.13E-06	3.34E-07	0.00E+00	3.15E-06	1.07E-07	3.44E-07	5.27E-08	5.03E-07	4.69E-09	2.62E-08	3.09E-09	3.40E-08
462	577474	4194127.13	6.68E-07	2.08E-06	3.25E-07	0.00E+00	3.07E-06	1.04E-07	3.35E-07	5.13E-08	4.90E-07	4.57E-09	2.56E-08	3.01E-09	3.31E-08
463	577481.38	4194132.45	6.50E-07	2.02E-06	3.16E-07	0.00E+00	2.99E-06	1.01E-07	3.26E-07	4.99E-08	4.77E-07	4.44E-09	2.49E-08	2.93E-09	3.22E-08
464	577488.76	4194137.76	6.31E-07	1.96E-06	3.07E-07	0.00E+00	2.90E-06	9.84E-08	3.16E-07	4.85E-08	4.63E-07	4.32E-09	2.42E-08	2.85E-09	3.13E-08
465	577496.15	4194143.08	6.12E-07	1.90E-06	2.98E-07	0.00E+00	2.81E-06	9.54E-08	3.07E-07	4.71E-08	4.49E-07	4.19E-09	2.34E-08	2.76E-09	3.04E-08
466	577503.53	4194148.4	5.93E-07	1.84E-06	2.89E-07	0.00E+00	2.73E-06	9.24E-08	2.97E-07	4.56E-08	4.35E-07	4.06E-09	2.27E-08	2.68E-09	2.94E-08
467	577512.5	4194162.67	5.86E-07	1.82E-06	2.85E-07	0.00E+00	2.69E-06	9.14E-08	2.94E-07	4.51E-08	4.30E-07	4.01E-09	2.24E-08	2.64E-09	2.91E-08
468	577515.69	4194180.58	6.08E-07	1.89E-06	2.96E-07	0.00E+00	2.79E-06	9.47E-08	3.05E-07	4.67E-08	4.46E-07	4.16E-09	2.33E-08	2.74E-09	3.02E-08
469	577517.29	4194189.53	6.17E-07	1.92E-06	3.01E-07	0.00E+00	2.84E-06	9.62E-08	3.09E-07	4.75E-08	4.53E-07	4.22E-09	2.36E-08	2.78E-09	3.06E-08
470	577525.26	4194234.31	6.43E-07	2.00E-06	3.13E-07	0.00E+00	2.96E-06	1.00E-07	3.22E-07	4.94E-08	4.72E-07	4.40E-09	2.46E-08	2.90E-09	3.19E-08
471	577526.86	4194243.26	6.42E-07	2.00E-06	3.13E-07	0.00E+00	2.95E-06	1.00E-07	3.22E-07	4.94E-08	4.71E-07	4.39E-09	2.46E-08	2.90E-09	3.19E-08
472	577528.45	4194252.22	6.39E-07	1.99E-06	3.11E-07	0.00E+00	2.94E-06	9.96E-08	3.20E-07	4.91E-08	4.69E-07	4.37E-09	2.45E-08	2.88E-09	3.17E-08
473	577530.05	4194261.17	6.33E-07	1.97E-06	3.08E-07	0.00E+00	2.91E-06	9.86E-08	3.17E-07	4.86E-08	4.64E-07	4.33E-09	2.42E-08	2.85E-09	3.14E-08
474	577531.64	4194270.13	6.23E-07	1.94E-06	3.04E-07	0.00E+00	2.86E-06	9.71E-08	3.12E-07	4.79E-08	4.58E-07	4.26E-09	2.39E-08	2.81E-09	3.09E-08
475	577534.83	4194288.04	5.97E-07	1.86E-06	2.91E-07	0.00E+00	2.74E-06	9.30E-08	2.99E-07	4.59E-08	4.38E-07	4.08E-09	2.28E-08	2.69E-09	2.96E-08
476	577536.43	4194296.99	5.80E-07	1.80E-06	2.83E-07	0.00E+00	2.67E-06	9.04E-08	2.91E-07	4.46E-08	4.26E-07	3.97E-09	2.22E-08	2.62E-09	2.88E-08
477	577538.02	4194305.95	5.61E-07	1.74E-06	2.73E-07	0.00E+00	2.58E-06	8.74E-08	2.81E-07	4.31E-08	4.12E-07	3.84E-09	2.15E-08	2.53E-09	2.78E-08
478	577539.62	4194314.9	5.40E-07	1.68E-06	2.63E-07	0.00E+00	2.48E-06	8.41E-08	2.70E-07	4.15E-08	3.96E-07	3.69E-09	2.06E-08	2.43E-09	2.68E-08
479	577370.68	4194052.7	7.44E-07	2.31E-06	3.62E-07	0.00E+00	3.42E-06	1.16E-07	3.73E-07	5.72E-08	5.46E-07	5.09E-09	2.85E-08	3.35E-09	3.69E-08
480	577361.64	4194050.5	7.42E-07	2.31E-06	3.61E-07	0.00E+00	3.41E-06	1.16E-07	3.72E-07	5.71E-08	5.45E-07	5.08E-09	2.84E-08	3.35E-09	3.68E-08
481	577352.61	4194048.3	7.37E-07	2.29E-06	3.59E-07	0.00E+00	3.39E-06	1.15E-07	3.69E-07	5.66E-08	5.41E-07	5.04E-09	2.82E-08	3.32E-09	3.65E-08
482	577343.57	4194046.1	7.28E-07	2.26E-06	3.54E-07	0.00E+00	3.34E-06	1.13E-07	3.65E-07	5.59E-08	5.34E-07	4.98E-09	2.78E-08	3.28E-09	3.61E-08
483	577334.54	4194043.89	7.17E-07	2.23E-06	3.49E-07	0.00E+00	3.30E-06	1.12E-07	3.59E-07	5.51E-08	5.26E-07	4.90E-09	2.74E-08	3.23E-09	3.56E-08
484	577325.51	4194041.69	7.04E-07	2.19E-06	3.43E-07	0.00E+00	3.24E-06	1.10E-07	3.53E-07	5.41E-08	5.17E-07	4.82E-09	2.69E-08	3.18E-09	3.49E-08
485	577380.36	4194048.26	7.02E-07	2.18E-06	3.42E-07	0.00E+00	3.23E-06	1.09E-07	3.52E-07	5.40E-08	5.15E-07	4.80E-09	2.69E-08	3.17E-09	3.48E-08
486	577387.68	4194053.53	7.16E-07	2.23E-06	3.49E-07	0.00E+00	3.29E-06	1.12E-07	3.59E-07	5.51E-08	5.26E-07	4.90E-09	2.74E-08	3.23E-09	3.55E-08
487	577394.99	4194058.8	7.27E-07	2.26E-06	3.54E-07	0.00E+00	3.34E-06	1.13E-07	3.64E-07	5.58E-08	5.33E-07	4.97E-09	2.78E-08	3.28E-09	3.60E-08
488	577402.31	4194064.07	7.33E-07	2.28E-06	3.57E-07	0.00E+00	3.37E-06	1.14E-07	3.67E-07	5.63E-08	5.38E-07	5.01E-09	2.80E-08	3.31E-09	3.64E-08
489	577409.63	4194069.34	7.35E-07	2.28E-06	3.58E-07	0.00E+00	3.38E-06	1.15E-07	3.68E-07	5.65E-08	5.39E-07	5.03E-09	2.81E-08	3.31E-09	3.65E-08
490	577416.94	4194074.61	7.33E-07	2.28E-06	3.57E-07	0.00E+00	3.37E-06	1.14E-07	3.67E-07	5.63E-08	5.38E-07	5.01E-09	2.80E-08	3.31E-09	3.64E-08
491	577424.26	4194079.88	7.27E-07	2.26E-06	3.54E-07	0.00E+00	3.34E-06	1.13E-07	3.64E-07	5.59E-08	5.34E-07	4.97E-09	2.78E-08	3.28E-09	3.61E-08
492	577431.58	4194085.15	7.18E-07	2.23E-06	3.50E-07	0.00E+00	3.30E-06	1.12E-07	3.60E-07	5.52E-08	5.27E-07	4.91E-09	2.75E-08	3.24E-09	3.56E-08
493	577438.89	4194090.42	7.07E-07	2.20E-06	3.44E-07	0.00E+00	3.25E-06	1.10E-07	3.54E-07	5.43E-08	5.18E-07	4.83E-09	2.70E-08	3.19E-09	3.50E-08
494	577446.21	4194095.69	6.93E-07	2.15E-06	3.37E-07	0.00E+00	3.19E-06	1.08E-07	3.47E-07	5.33E-08	5.09E-07	4.74E-09	2.65E-08	3.13E-09	3.44E-08

495	577453.52	4194100.96	6.79E-07	2.11E-06	3.30E-07	0.00E+00	3.12E-06	1.06E-07	3.40E-07	5.21E-08	4.98E-07	4.64E-09	2.60E-08	3.06E-09	3.37E-08
496	577460.84	4194106.23	6.63E-07	2.06E-06	3.23E-07	0.00E+00	3.05E-06	1.03E-07	3.32E-07	5.09E-08	4.86E-07	4.53E-09	2.54E-08	2.99E-09	3.29E-08
497	577468.16	4194111.5	6.47E-07	2.01E-06	3.15E-07	0.00E+00	2.97E-06	1.01E-07	3.24E-07	4.98E-08	4.75E-07	4.43E-09	2.48E-08	2.92E-09	3.21E-08
498	577475.47	4194116.77	6.32E-07	1.96E-06	3.08E-07	0.00E+00	2.90E-06	9.84E-08	3.17E-07	4.86E-08	4.64E-07	4.32E-09	2.42E-08	2.85E-09	3.13E-08
499	577482.79	4194122.04	6.16E-07	1.91E-06	3.00E-07	0.00E+00	2.83E-06	9.59E-08	3.09E-07	4.73E-08	4.52E-07	4.21E-09	2.36E-08	2.78E-09	3.05E-08
500	577490.11	4194127.31	5.99E-07	1.86E-06	2.92E-07	0.00E+00	2.75E-06	9.34E-08	3.00E-07	4.61E-08	4.40E-07	4.10E-09	2.29E-08	2.70E-09	2.97E-08
501	577497.42	4194132.58	5.83E-07	1.81E-06	2.84E-07	0.00E+00	2.68E-06	9.08E-08	2.92E-07	4.48E-08	4.28E-07	3.98E-09	2.23E-08	2.63E-09	2.89E-08
502	577504.74	4194137.85	5.65E-07	1.76E-06	2.75E-07	0.00E+00	2.60E-06	8.81E-08	2.83E-07	4.35E-08	4.15E-07	3.87E-09	2.16E-08	2.55E-09	2.80E-08
503	577512.05	4194143.12	5.48E-07	1.70E-06	2.67E-07	0.00E+00	2.52E-06	8.55E-08	2.75E-07	4.22E-08	4.02E-07	3.75E-09	2.10E-08	2.47E-09	2.72E-08
504	577520.95	4194157.27	5.42E-07	1.69E-06	2.64E-07	0.00E+00	2.49E-06	8.45E-08	2.72E-07	4.17E-08	3.98E-07	3.71E-09	2.07E-08	2.45E-09	2.69E-08
505	577522.53	4194166.14	5.53E-07	1.72E-06	2.69E-07	0.00E+00	2.54E-06	8.61E-08	2.77E-07	4.25E-08	4.06E-07	3.78E-09	2.11E-08	2.49E-09	2.74E-08
506	577525.7	4194183.9	5.71E-07	1.77E-06	2.78E-07	0.00E+00	2.62E-06	8.89E-08	2.86E-07	4.39E-08	4.19E-07	3.90E-09	2.18E-08	2.57E-09	2.83E-08
507	577535.18	4194237.16	5.97E-07	1.86E-06	2.91E-07	0.00E+00	2.74E-06	9.31E-08	2.99E-07	4.59E-08	4.38E-07	4.09E-09	2.29E-08	2.69E-09	2.96E-08
508	577538.34	4194254.91	5.90E-07	1.83E-06	2.87E-07	0.00E+00	2.71E-06	9.20E-08	2.96E-07	4.54E-08	4.33E-07	4.04E-09	2.26E-08	2.66E-09	2.93E-08
509	577541.51	4194272.67	5.73E-07	1.78E-06	2.79E-07	0.00E+00	2.63E-06	8.93E-08	2.87E-07	4.41E-08	4.21E-07	3.92E-09	2.19E-08	2.59E-09	2.84E-08
510	577544.67	4194290.42	5.43E-07	1.69E-06	2.65E-07	0.00E+00	2.50E-06	8.47E-08	2.72E-07	4.18E-08	3.99E-07	3.72E-09	2.08E-08	2.45E-09	2.70E-08
511	577547.83	4194308.18	5.10E-07	1.59E-06	2.48E-07	0.00E+00	2.34E-06	7.95E-08	2.56E-07	3.92E-08	3.74E-07	3.49E-09	1.95E-08	2.30E-09	2.53E-08
512	577549.41	4194317.05	4.93E-07	1.53E-06	2.40E-07	0.00E+00	2.26E-06	7.68E-08	2.47E-07	3.79E-08	3.62E-07	3.37E-09	1.88E-08	2.22E-09	2.44E-08
513	577373.05	4194042.99	6.85E-07	2.13E-06	3.33E-07	0.00E+00	3.15E-06	1.07E-07	3.43E-07	5.27E-08	5.03E-07	4.69E-09	2.62E-08	3.09E-09	3.40E-08
514	577364.01	4194040.78	6.83E-07	2.12E-06	3.32E-07	0.00E+00	3.14E-06	1.06E-07	3.42E-07	5.25E-08	5.01E-07	4.67E-09	2.61E-08	3.08E-09	3.39E-08
515	577354.98	4194038.58	6.77E-07	2.11E-06	3.30E-07	0.00E+00	3.11E-06	1.06E-07	3.39E-07	5.21E-08	4.97E-07	4.63E-09	2.59E-08	3.05E-09	3.36E-08
516	577345.94	4194036.38	6.69E-07	2.08E-06	3.26E-07	0.00E+00	3.07E-06	1.04E-07	3.35E-07	5.14E-08	4.91E-07	4.58E-09	2.56E-08	3.02E-09	3.32E-08
517	577336.91	4194034.18	6.59E-07	2.05E-06	3.21E-07	0.00E+00	3.03E-06	1.03E-07	3.30E-07	5.07E-08	4.84E-07	4.51E-09	2.52E-08	2.97E-09	3.27E-08
518	577327.88	4194031.98	6.48E-07	2.01E-06	3.15E-07	0.00E+00	2.98E-06	1.01E-07	3.25E-07	4.98E-08	4.75E-07	4.43E-09	2.48E-08	2.92E-09	3.21E-08
519	577382.67	4194038.5	6.49E-07	2.02E-06	3.16E-07	0.00E+00	2.98E-06	1.01E-07	3.25E-07	4.98E-08	4.76E-07	4.44E-09	2.48E-08	2.92E-09	3.22E-08
520	577397.19	4194048.96	6.72E-07	2.09E-06	3.27E-07	0.00E+00	3.09E-06	1.05E-07	3.37E-07	5.17E-08	4.93E-07	4.60E-09	2.57E-08	3.03E-09	3.33E-08
521	577411.7	4194059.41	6.82E-07	2.12E-06	3.32E-07	0.00E+00	3.13E-06	1.06E-07	3.42E-07	5.24E-08	5.01E-07	4.67E-09	2.61E-08	3.08E-09	3.38E-08
522	577426.22	4194069.87	6.78E-07	2.11E-06	3.30E-07	0.00E+00	3.12E-06	1.06E-07	3.40E-07	5.21E-08	4.98E-07	4.64E-09	2.60E-08	3.06E-09	3.36E-08
523	577440.74	4194080.33	6.62E-07	2.06E-06	3.22E-07	0.00E+00	3.04E-06	1.03E-07	3.32E-07	5.09E-08	4.86E-07	4.53E-09	2.53E-08	2.99E-09	3.29E-08
524	577455.25	4194090.78	6.39E-07	1.99E-06	3.11E-07	0.00E+00	2.94E-06	9.96E-08	3.20E-07	4.91E-08	4.69E-07	4.37E-09	2.44E-08	2.88E-09	3.17E-08
525	577469.77	4194101.24	6.12E-07	1.90E-06	2.98E-07	0.00E+00	2.81E-06	9.53E-08	3.07E-07	4.70E-08	4.49E-07	4.18E-09	2.34E-08	2.76E-09	3.03E-08
526	577484.29	4194111.7	5.84E-07	1.81E-06	2.84E-07	0.00E+00	2.68E-06	9.09E-08	2.93E-07	4.49E-08	4.28E-07	3.99E-09	2.23E-08	2.63E-09	2.90E-08
527	577498.8	4194122.15	5.54E-07	1.72E-06	2.70E-07	0.00E+00	2.55E-06	8.64E-08	2.78E-07	4.26E-08	4.07E-07	3.79E-09	2.12E-08	2.50E-09	2.75E-08
528	577513.32	4194132.61	5.24E-07	1.63E-06	2.55E-07	0.00E+00	2.41E-06	8.16E-08	2.62E-07	4.02E-08	3.84E-07	3.58E-09	2.00E-08	2.36E-09	2.60E-08
529	577529.4	4194151.87	5.03E-07	1.56E-06	2.45E-07	0.00E+00	2.31E-06	7.84E-08	2.52E-07	3.87E-08	3.69E-07	3.44E-09	1.92E-08	2.27E-09	2.50E-08
530	577530.97	4194160.68	5.12E-07	1.59E-06	2.49E-07	0.00E+00	2.35E-06	7.98E-08	2.57E-07	3.94E-08	3.76E-07	3.50E-09	1.96E-08	2.31E-09	2.54E-08
531	577534.11	4194178.29	5.29E-07	1.64E-06	2.57E-07	0.00E+00	2.43E-06	8.24E-08	2.65E-07	4.06E-08	3.88E-07	3.62E-09	2.02E-08	2.38E-09	2.62E-08
532	577537.25	4194195.9	5.43E-07	1.69E-06	2.64E-07	0.00E+00	2.49E-06	8.45E-08	2.72E-07	4.17E-08	3.98E-07	3.71E-09	2.08E-08	2.45E-09	2.69E-08
533	577543.52	4194231.13	5.56E-07	1.73E-06	2.70E-07	0.00E+00	2.55E-06	8.66E-08	2.78E-07	4.27E-08	4.08E-07	3.80E-09	2.13E-08	2.51E-09	2.76E-08
534	577546.66	4194248.74	5.51E-07	1.71E-06	2.68E-07	0.00E+00	2.53E-06	8.58E-08	2.76E-07	4.23E-08	4.04E-07	3.77E-09	2.11E-08	2.48E-09	2.73E-08
535	577549.8	4194266.36	5.29E-07	1.65E-06	2.58E-07	0.00E+00	2.43E-06	8.25E-08	2.65E-07	4.07E-08	3.88E-07	3.62E-09	2.03E-08	2.39E-09	2.63E-08
536	577551.36	4194275.16	5.18E-07	1.61E-06	2.52E-07	0.00E+00	2.38E-06	8.08E-08	2.60E-07	3.98E-08	3.80E-07	3.55E-09	1.98E-08	2.34E-09	2.57E-08
537	577554.5	4194292.78	4.93E-07	1.53E-06	2.40E-07	0.00E+00	2.27E-06	7.69E-08	2.47E-07	3.79E-08	3.62E-07	3.37E-09	1.89E-08	2.23E-09	2.45E-08
538	577557.64	4194310.39	4.65E-07	1.45E-06	2.26E-07	0.00E+00	2.14E-06	7.25E-08	2.33E-07	3.58E-08	3.41E-07	3.18E-09	1.78E-08	2.10E-09	2.31E-08
539	577366.38	4194031.07	6.30E-07	1.96E-06	3.06E-07	0.00E+00	2.89E-06	9.81E-08	3.16E-07	4.84E-08	4.62E-07	4.31E-09	2.41E-08	2.84E-09	3.12E-08
540	577357.35	4194028.87	6.24E-07	1.94E-06	3.04E-07	0.00E+00	2.87E-06	9.73E-08	3.13E-07	4.80E-08	4.58E-07	4.27E-09	2.39E-08	2.82E-09	3.10E-08
541	577348.31	4194026.67	6.17E-07	1.92E-06	3.00E-07	0.00E+00	2.83E-06	9.61E-08	3.09E-07	4.74E-08	4.53E-07	4.22E-09	2.36E-08	2.78E-09	3.06E-08
542	577339.28	4194024.46	6.08E-07	1.89E-06	2.96E-07	0.00E+00	2.79E-06	9.47E-08	3.05E-07	4.67E-08	4.46E-07	4.16E-09	2.32E-08	2.74E-09	3.01E-08
543	577330.24	4194022.26	5.97E-07	1.86E-06	2.91E-07	0.00E+00	2.74E-06	9.31E-08	2.99E-07	4.59E-08	4.38E-07	4.08E-09	2.28E-08	2.69E-09	2.96E-08
544	577384.99	4194028.75	6.00E-07	1.87E-06	2.92E-07	0.00E+00	2.76E-06	9.35E-08	3.01E-07	4.61E-08	4.40E-07	4.11E-09	2.30E-08	2.71E-09	2.98E-08
545	577399.4	4194039.13	6.23E-07	1.94E-06	3.03E-07	0.00E+00	2.86E-06	9.71E-08	3.12E-07	4.79E-08	4.57E-07	4.26E-09	2.38E-08	2.81E-09	3.09E-08
546	577413.81	4194049.51	6.34E-07	1.97E-06	3.09E-07	0.00E+00	2.92E-06	9.89E-08	3.18E-07	4.88E-08	4.66E-07	4.34E-09	2.43E-08	2.86E-09	3.15E-08
547	577428.22	4194059.89	6.34E-07	1.97E-06	3.08E-07	0.00E+00	2.91E-06	9.87E-08	3.18E-07	4.87E-08	4.65E-07	4.33E-09	2.42E-08	2.86E-09	3.14E-08
548	577442.63	4194070.27	6.22E-07	1.93E-06	3.03E-07	0.00E+00	2.86E-06	9.69E-08	3.12E-07	4.78E-08	4.56E-07	4.25E-09	2.38E-08	2.80E-09	3.08E-08
549	577457.04	4194080.65	6.02E-07	1.87E-06	2.93E-07	0.00E+00	2.77E-06	9.38E-08	3.02E-07	4.63E-08	4.42E-07	4.12E-09	2.30E-08	2.72E-09	2.99E-08
550	577471.45	4194091.03	5.79E-07	1.80E-06	2.82E-07	0.00E+00	2.66E-06	9.02E-08	2.90E-07	4.45E-08	4.25E-07	3.96E-09	2.21E-08	2.61E-09	2.87E-08
551	577485.86	4194101.41	5.54E-07	1.72E-06	2.69E-07	0.00E+00	2.54E-06	8.62E-08	2.77E-07	4.25E-08	4.06E-07	3.79E-09	2.12E-08	2.50E-09	2.75E-08
552	577500.27	4194111.79	5.27E-07	1.64E-06	2.57E-07	0.00E+00	2.42E-06	8.22E-08	2.64E-07	4.05E-08	3.87E-07	3.61E-09	2.02E-08	2.38E-09	2.62E-08
553	577514.68	4194122.17	5.00E-07	1.55E-06	2.43E-07	0.00E+00	2.30E-06	7.79E-08	2.50E-07	3.84E-08	3.67E-07	3.42E-09	1.91E-08	2.25E-09	2.48E-08
554	577529.1	4194132.55	4.72E-07	1.47E-06	2.30E-07	0.00E+00	2.17E-06	7.36E-08	2.37E-07	3.63E-08	3.47E-07	3.23E-09	1.81E-08	2.13E-09	2.34E-08
555	577537.86	4194146.48	4.68E-07	1.45E-06	2.28E-07	0.00E+00	2.15E-06	7.29E-08	2.34E-07	3.59E-08	3.43E-07	3.20E-09	1.79E-08	2.11E-09	2.32E-08
556	577540.97	4194163.97	4.84E-07	1.50E-06	2.36E-07	0.00E+00	2.22E-06	7.54E-08	2.42E-07	3.72E-08	3.55E-07	3.31E-09	1.85E-08	2.18E-09	2.40E-08
557	577544.09	4194181.45	4.98E-07	1.55E-06	2.42E-07	0.00E+00	2.29E-06	7.76E-08	2.49E-07	3.83E-08	3.65E-07	3.40E-09	1.90E-08	2.25E-09	2.47E-08
558	577547.2	4194198.94	5.09E-07	1.58E-06	2.48E-07	0.00E+00	2.34E-06	7.93E-08	2.55E-07	3.91E-08	3.74E-07	3.48E-09	1.95E-08	2.30E-09	2.53E-08
559	577553.43	4194233.91	5.18E-07	1.61E-06	2.52E-07	0.00E+00	2.38E-06	8.06E-08	2.59E-07	3.98E-08	3.80E-07	3.54E-09	1.98E-08	2.33E-09	2.57E-08
560	577556.54	4194251.39	5.03E-07	1.56E-06	2.45E-07	0.00E+00	2.31E-06	7.84E-08	2.52E-07	3.87E-08	3.69E-07	3.44E-09	1.92E-08	2.27E-09	2.50E-08
561	577559.66	4194268.88	4.83E-07	1.50E-06	2.35E-07	0.00E+00	2.22E-06	7.53E-08	2.42E-07	3.71E-08	3.55E-07	3.31E-09	1.85E-08	2.18E-09	2.40E-08
562	577562.77	4194286.36	4.61E-07	1.43E-06	2.24E-07	0.00E+00	2.12E-06	7.18E-08	2.31E-07	3.54E-08	3.38E-07	3.15E-09	1.76E-08	2.08E-09	2.29E-08
563	577565.89	4194303.85	4.38E-07	1.36E-06	2.13E-07	0.00E+00	2.01E-06	6.82E-08	2.19E-07	3.36E-08	3.21E-07	2.99E-09	1.67E-08	1.97E-09	2.17E-08
564	577368.75	4194021.35	5.82E-07	1.81E-06	2.83E-07	0.00E+00	2.67E-06	9.07E-08	2.92E-07	4.47E-08	4.27E-07	3.98E-09	2.23E-08	2.62E-09	2.89E-08
565	577359.71	4194019.15	5.77E-07	1.79E-06	2.81E-07	0.00E+00	2.65E-06	8.99E-08	2.89E-07	4.43E-08	4.23E-07	3.95E-09	2.21E-08	2.60E-09	2.86E-08
566	577350.68	4194016.95	5.70E-07	1.77E-06	2.78E-07	0.00E+00	2.62E-06	8.88E-08	2.86E-07	4.38E-08	4.18E-07	3.90E-09	2.18E-08	2.57E-09	2.83E-08
567	577341.65	4194014.75	5.62E-07	1.75E-06	2.73E-07	0.00E+00	2.58E-06	8.75E-08	2.82E-07	4.32E-08	4.12E-07	3.84E-09	2.15E-08	2.53E-09	2.79E-08
568	577332.61	4194012.55	5.52E-07	1.72E-06	2.69E-07	0.00E+00	2.54E-06	8.60E-08	2.77E-07	4.24E-08	4.05E-07	3.78E-09	2.11E-08	2.49E-09	2.74E-08
569	577387.63	4194019.23	5.58E-07	1.73E-06	2.71E-07	0.00E+00	2.56E-06	8.69E-08	2.79E-07	4.29E-08	4.09E-07	3.81E-09	2.13E-08	2.51E-09	2.77E-08
570	577395.11	4194024.62	5.70E-07	1.77E-06	2.78E-07	0.00E+00	2.62E-06	8.89E-08	2.86E-07	4.38E-08	4.19E-07	3.90E-09	2.18E-08	2.57E-09	2.83E-08
571	577402.6	4194030.01	5.80E-07	1.80E-06	2.83E-07	0.00E+00	2.67E-06	9.04E-08	2.91E-07	4.46E-08	4.26E-07	3.97E-09	2.22E-08	2.62E-09	2.88E-08
572	577410.08	4194035.4	5.88E-07	1.83E-06	2.86E-07	0.00E+00	2.70E-06	9.15E-08	2.94E-07	4.52E-08	4.31E-07	4.02E-09	2.25E-08	2.65E-09	2.91E-08
573	577417.56	4194040.79	5.92E-07	1.84E-06	2.88E-07	0.00E+00	2.72E-06	9.22E-08	2.97E-07	4.55E-08	4.34E-07	4.05E-09	2.26E-08	2.67E-09	2.94E-08
574	577425.04	4194046.18	5.93E-07	1.84E-06	2.89E-07	0.00E+00	2.73E-06	9.25E-08	2.97E-07	4.56E-08	4.35E-07	4.06E-09	2.27E-08	2.68E-09	2.94E-08
575	577432.53	4194051.57	5.92E-07	1.84E-06	2.88E-07	0.00E+00	2.72E-06	9.22E-08	2.97E-07	4.55E-08	4.34E-07	4.05E-09	2.26E-08	2.67E-09	2.94E-08
576	577440.01	4194056.96	5.88E-07	1.83E-06	2.86E-07	0.00E+00	2.70E-06	9.16E-08	2.94E-07	4.52E-08	4.31E-07	4.02E-09	2.25E-08	2.65E-09	2.91E-08
577	577447.49	4194062.35	5.81E-07	1.81E-06	2.83E-07	0.00E+00	2.67E-06	9.05E-08	2.91E-07	4.47E-08	4.26E-07	3.97E-09	2.22E-08	2.62E-09	2.88E-08

578	577454.98	4194067.74	5.73E-07	1.78E-06	2.79E-07	0.00E+00	2.63E-06	8.92E-08	2.87E-07	4.40E-08	4.20E-07	3.92E-09	2.19E-08	2.58E-09	2.84E-08
579	577462.46	4194073.13	5.63E-07	1.75E-06	2.74E-07	0.00E+00	2.59E-06	8.77E-08	2.82E-07	4.33E-08	4.13E-07	3.85E-09	2.15E-08	2.54E-09	2.79E-08
580	577469.94	4194078.52	5.52E-07	1.72E-06	2.69E-07	0.00E+00	2.54E-06	8.61E-08	2.77E-07	4.25E-08	4.05E-07	3.78E-09	2.11E-08	2.49E-09	2.74E-08
581	577477.42	4194083.91	5.41E-07	1.68E-06	2.63E-07	0.00E+00	2.49E-06	8.43E-08	2.71E-07	4.16E-08	3.97E-07	3.70E-09	2.07E-08	2.44E-09	2.68E-08
582	577484.91	4194089.3	5.29E-07	1.65E-06	2.58E-07	0.00E+00	2.43E-06	8.25E-08	2.65E-07	4.07E-08	3.88E-07	3.62E-09	2.02E-08	2.39E-09	2.63E-08
583	577492.39	4194094.69	5.17E-07	1.61E-06	2.52E-07	0.00E+00	2.38E-06	8.06E-08	2.59E-07	3.98E-08	3.80E-07	3.54E-09	1.98E-08	2.33E-09	2.57E-08
584	577499.87	4194100.08	5.05E-07	1.57E-06	2.46E-07	0.00E+00	2.32E-06	7.87E-08	2.53E-07	3.88E-08	3.71E-07	3.45E-09	1.93E-08	2.28E-09	2.51E-08
585	577507.35	4194105.47	4.92E-07	1.53E-06	2.40E-07	0.00E+00	2.26E-06	7.67E-08	2.47E-07	3.78E-08	3.61E-07	3.37E-09	1.88E-08	2.22E-09	2.44E-08
586	577514.84	4194110.86	4.79E-07	1.49E-06	2.33E-07	0.00E+00	2.20E-06	7.47E-08	2.40E-07	3.68E-08	3.52E-07	3.28E-09	1.83E-08	2.16E-09	2.38E-08
587	577522.32	4194116.25	4.66E-07	1.45E-06	2.27E-07	0.00E+00	2.14E-06	7.27E-08	2.34E-07	3.58E-08	3.42E-07	3.19E-09	1.78E-08	2.10E-09	2.31E-08
588	577529.8	4194121.64	4.54E-07	1.41E-06	2.21E-07	0.00E+00	2.08E-06	7.07E-08	2.27E-07	3.49E-08	3.33E-07	3.10E-09	1.74E-08	2.05E-09	2.25E-08
589	577537.28	4194127.03	4.41E-07	1.37E-06	2.15E-07	0.00E+00	2.03E-06	6.87E-08	2.21E-07	3.39E-08	3.24E-07	3.02E-09	1.69E-08	1.99E-09	2.19E-08
590	577546.38	4194141.5	4.36E-07	1.36E-06	2.12E-07	0.00E+00	2.00E-06	6.80E-08	2.19E-07	3.35E-08	3.20E-07	2.98E-09	1.67E-08	1.97E-09	2.16E-08
591	577548	4194150.57	4.44E-07	1.38E-06	2.16E-07	0.00E+00	2.04E-06	6.92E-08	2.22E-07	3.41E-08	3.26E-07	3.04E-09	1.70E-08	2.00E-09	2.20E-08
592	577549.62	4194159.65	4.51E-07	1.40E-06	2.20E-07	0.00E+00	2.07E-06	7.03E-08	2.26E-07	3.47E-08	3.31E-07	3.09E-09	1.73E-08	2.04E-09	2.24E-08
593	577551.23	4194168.73	4.58E-07	1.42E-06	2.23E-07	0.00E+00	2.11E-06	7.14E-08	2.30E-07	3.52E-08	3.36E-07	3.13E-09	1.75E-08	2.07E-09	2.27E-08
594	577552.85	4194177.81	4.65E-07	1.44E-06	2.26E-07	0.00E+00	2.14E-06	7.24E-08	2.33E-07	3.57E-08	3.41E-07	3.18E-09	1.78E-08	2.10E-09	2.31E-08
595	577554.47	4194186.89	4.70E-07	1.46E-06	2.29E-07	0.00E+00	2.16E-06	7.33E-08	2.36E-07	3.62E-08	3.45E-07	3.22E-09	1.80E-08	2.12E-09	2.33E-08
596	577556.09	4194195.97	4.75E-07	1.48E-06	2.31E-07	0.00E+00	2.18E-06	7.41E-08	2.38E-07	3.65E-08	3.49E-07	3.25E-09	1.82E-08	2.14E-09	2.36E-08
597	577562.55	4194232.28	4.83E-07	1.50E-06	2.35E-07	0.00E+00	2.22E-06	7.53E-08	2.42E-07	3.71E-08	3.55E-07	3.30E-09	1.85E-08	2.18E-09	2.40E-08
598	577564.17	4194241.36	4.80E-07	1.49E-06	2.34E-07	0.00E+00	2.21E-06	7.48E-08	2.41E-07	3.69E-08	3.52E-07	3.28E-09	1.84E-08	2.17E-09	2.38E-08
599	577565.79	4194250.44	4.68E-07	1.45E-06	2.28E-07	0.00E+00	2.15E-06	7.29E-08	2.34E-07	3.60E-08	3.43E-07	3.20E-09	1.79E-08	2.11E-09	2.32E-08
600	577567.4	4194259.52	4.56E-07	1.42E-06	2.22E-07	0.00E+00	2.10E-06	7.10E-08	2.29E-07	3.50E-08	3.35E-07	3.12E-09	1.74E-08	2.06E-09	2.26E-08
601	577569.02	4194268.6	4.46E-07	1.39E-06	2.17E-07	0.00E+00	2.05E-06	6.95E-08	2.24E-07	3.43E-08	3.28E-07	3.05E-09	1.71E-08	2.01E-09	2.21E-08
602	577570.64	4194277.68	4.35E-07	1.35E-06	2.12E-07	0.00E+00	2.00E-06	6.78E-08	2.18E-07	3.35E-08	3.19E-07	2.98E-09	1.67E-08	1.96E-09	2.16E-08
603	577572.26	4194286.76	4.23E-07	1.32E-06	2.06E-07	0.00E+00	1.94E-06	6.59E-08	2.12E-07	3.25E-08	3.11E-07	2.89E-09	1.62E-08	1.91E-09	2.10E-08
604	577573.87	4194295.84	4.13E-07	1.28E-06	2.01E-07	0.00E+00	1.90E-06	6.43E-08	2.07E-07	3.17E-08	3.03E-07	2.82E-09	1.58E-08	1.86E-09	2.05E-08
605	577575.49	4194304.91	4.02E-07	1.25E-06	1.96E-07	0.00E+00	1.85E-06	6.26E-08	2.01E-07	3.09E-08	2.95E-07	2.75E-09	1.54E-08	1.81E-09	1.99E-08
606	577577.11	4194313.99	3.90E-07	1.21E-06	1.90E-07	0.00E+00	1.79E-06	6.08E-08	1.95E-07	3.00E-08	2.86E-07	2.67E-09	1.49E-08	1.76E-09	1.94E-08
607	577578.72	4194323.07	3.78E-07	1.17E-06	1.84E-07	0.00E+00	1.74E-06	5.89E-08	1.89E-07	2.90E-08	2.77E-07	2.58E-09	1.45E-08	1.70E-09	1.87E-08
608	577380.15	4194013.84	5.43E-07	1.69E-06	2.64E-07	0.00E+00	2.49E-06	8.45E-08	2.72E-07	4.17E-08	3.98E-07	3.71E-09	2.08E-08	2.45E-09	2.69E-08
609	577371.12	4194011.64	5.39E-07	1.68E-06	2.63E-07	0.00E+00	2.48E-06	8.40E-08	2.70E-07	4.15E-08	3.96E-07	3.69E-09	2.06E-08	2.43E-09	2.68E-08
610	577362.08	4194009.44	5.35E-07	1.66E-06	2.60E-07	0.00E+00	2.46E-06	8.33E-08	2.68E-07	4.11E-08	3.92E-07	3.66E-09	2.05E-08	2.41E-09	2.65E-08
611	577353.05	4194007.23	5.28E-07	1.64E-06	2.57E-07	0.00E+00	2.43E-06	8.23E-08	2.65E-07	4.06E-08	3.88E-07	3.61E-09	2.02E-08	2.38E-09	2.62E-08
612	577344.01	4194005.03	5.21E-07	1.62E-06	2.53E-07	0.00E+00	2.39E-06	8.11E-08	2.61E-07	4.00E-08	3.82E-07	3.56E-09	1.99E-08	2.35E-09	2.58E-08
613	577334.98	4194002.83	5.12E-07	1.59E-06	2.49E-07	0.00E+00	2.35E-06	7.97E-08	2.56E-07	3.93E-08	3.76E-07	3.50E-09	1.96E-08	2.31E-09	2.54E-08
614	577389.94	4194009.47	5.18E-07	1.61E-06	2.52E-07	0.00E+00	2.38E-06	8.08E-08	2.60E-07	3.98E-08	3.80E-07	3.55E-09	1.98E-08	2.34E-09	2.57E-08
615	577397.36	4194014.82	5.31E-07	1.65E-06	2.58E-07	0.00E+00	2.44E-06	8.27E-08	2.66E-07	4.08E-08	3.89E-07	3.63E-09	2.03E-08	2.39E-09	2.63E-08
616	577404.78	4194020.16	5.41E-07	1.68E-06	2.63E-07	0.00E+00	2.48E-06	8.42E-08	2.71E-07	4.15E-08	3.97E-07	3.70E-09	2.07E-08	2.44E-09	2.68E-08
617	577412.21	4194025.51	5.48E-07	1.70E-06	2.67E-07	0.00E+00	2.52E-06	8.53E-08	2.75E-07	4.21E-08	4.02E-07	3.75E-09	2.10E-08	2.47E-09	2.72E-08
618	577419.63	4194030.86	5.53E-07	1.72E-06	2.69E-07	0.00E+00	2.54E-06	8.61E-08	2.77E-07	4.25E-08	4.05E-07	3.78E-09	2.11E-08	2.49E-09	2.74E-08
619	577427.05	4194036.2	5.55E-07	1.72E-06	2.70E-07	0.00E+00	2.55E-06	8.64E-08	2.78E-07	4.26E-08	4.07E-07	3.79E-09	2.12E-08	2.50E-09	2.75E-08
620	577434.47	4194041.55	5.55E-07	1.72E-06	2.70E-07	0.00E+00	2.55E-06	8.64E-08	2.78E-07	4.26E-08	4.07E-07	3.79E-09	2.12E-08	2.50E-09	2.75E-08
621	577441.9	4194046.9	5.52E-07	1.72E-06	2.69E-07	0.00E+00	2.54E-06	8.60E-08	2.77E-07	4.24E-08	4.05E-07	3.77E-09	2.11E-08	2.49E-09	2.74E-08
622	577449.32	4194052.24	5.47E-07	1.70E-06	2.66E-07	0.00E+00	2.51E-06	8.52E-08	2.74E-07	4.20E-08	4.01E-07	3.74E-09	2.09E-08	2.47E-09	2.71E-08
623	577456.74	4194057.59	5.40E-07	1.68E-06	2.63E-07	0.00E+00	2.48E-06	8.41E-08	2.71E-07	4.15E-08	3.96E-07	3.69E-09	2.07E-08	2.44E-09	2.68E-08
624	577464.16	4194062.94	5.32E-07	1.65E-06	2.59E-07	0.00E+00	2.44E-06	8.29E-08	2.67E-07	4.09E-08	3.90E-07	3.64E-09	2.04E-08	2.40E-09	2.64E-08
625	577471.59	4194068.28	5.23E-07	1.63E-06	2.55E-07	0.00E+00	2.40E-06	8.15E-08	2.62E-07	4.02E-08	3.84E-07	3.58E-09	2.00E-08	2.36E-09	2.59E-08
626	577479.01	4194073.63	5.13E-07	1.59E-06	2.50E-07	0.00E+00	2.36E-06	7.99E-08	2.57E-07	3.94E-08	3.76E-07	3.51E-09	1.96E-08	2.31E-09	2.54E-08
627	577486.43	4194078.98	5.02E-07	1.56E-06	2.45E-07	0.00E+00	2.31E-06	7.83E-08	2.52E-07	3.86E-08	3.69E-07	3.44E-09	1.92E-08	2.27E-09	2.49E-08
628	577493.85	4194084.32	4.92E-07	1.53E-06	2.39E-07	0.00E+00	2.26E-06	7.66E-08	2.46E-07	3.78E-08	3.61E-07	3.36E-09	1.88E-08	2.22E-09	2.44E-08
629	577501.27	4194089.67	4.81E-07	1.49E-06	2.34E-07	0.00E+00	2.21E-06	7.49E-08	2.41E-07	3.70E-08	3.53E-07	3.29E-09	1.84E-08	2.17E-09	2.39E-08
630	577508.7	4194095.01	4.69E-07	1.46E-06	2.29E-07	0.00E+00	2.16E-06	7.32E-08	2.35E-07	3.61E-08	3.45E-07	3.21E-09	1.80E-08	2.12E-09	2.33E-08
631	577516.12	4194100.36	4.58E-07	1.42E-06	2.23E-07	0.00E+00	2.10E-06	7.14E-08	2.30E-07	3.52E-08	3.36E-07	3.13E-09	1.75E-08	2.07E-09	2.27E-08
632	577523.54	4194105.71	4.46E-07	1.39E-06	2.17E-07	0.00E+00	2.05E-06	6.95E-08	2.24E-07	3.43E-08	3.28E-07	3.05E-09	1.71E-08	2.01E-09	2.21E-08
633	577530.96	4194111.05	4.35E-07	1.35E-06	2.12E-07	0.00E+00	2.00E-06	6.78E-08	2.18E-07	3.34E-08	3.19E-07	2.97E-09	1.66E-08	1.96E-09	2.16E-08
634	577538.39	4194116.4	4.24E-07	1.32E-06	2.06E-07	0.00E+00	1.95E-06	6.60E-08	2.12E-07	3.26E-08	3.11E-07	2.90E-09	1.62E-08	1.91E-09	2.10E-08
635	577545.81	4194121.75	4.12E-07	1.28E-06	2.01E-07	0.00E+00	1.89E-06	6.42E-08	2.07E-07	3.17E-08	3.02E-07	2.82E-09	1.58E-08	1.86E-09	2.04E-08
636	577554.84	4194136.1	4.07E-07	1.27E-06	1.98E-07	0.00E+00	1.87E-06	6.35E-08	2.04E-07	3.13E-08	2.99E-07	2.79E-09	1.56E-08	1.84E-09	2.02E-08
637	577556.44	4194145.1	4.14E-07	1.29E-06	2.02E-07	0.00E+00	1.90E-06	6.45E-08	2.08E-07	3.18E-08	3.04E-07	2.83E-09	1.58E-08	1.87E-09	2.05E-08
638	577558.04	4194154.11	4.21E-07	1.31E-06	2.05E-07	0.00E+00	1.93E-06	6.56E-08	2.11E-07	3.24E-08	3.09E-07	2.88E-09	1.61E-08	1.90E-09	2.09E-08
639	577559.65	4194163.12	4.27E-07	1.33E-06	2.08E-07	0.00E+00	1.96E-06	6.66E-08	2.14E-07	3.28E-08	3.14E-07	2.92E-09	1.63E-08	1.93E-09	2.12E-08
640	577561.25	4194172.12	4.33E-07	1.35E-06	2.11E-07	0.00E+00	1.99E-06	6.75E-08	2.17E-07	3.33E-08	3.18E-07	2.96E-09	1.66E-08	1.95E-09	2.15E-08
641	577562.86	4194181.13	4.38E-07	1.36E-06	2.13E-07	0.00E+00	2.01E-06	6.83E-08	2.20E-07	3.37E-08	3.22E-07	3.00E-09	1.68E-08	1.98E-09	2.17E-08
642	577564.46	4194190.13	4.43E-07	1.38E-06	2.16E-07	0.00E+00	2.04E-06	6.90E-08	2.22E-07	3.40E-08	3.25E-07	3.03E-09	1.69E-08	2.00E-09	2.20E-08
643	577566.06	4194199.14	4.47E-07	1.39E-06	2.18E-07	0.00E+00	2.05E-06	6.96E-08	2.24E-07	3.43E-08	3.28E-07	3.06E-09	1.71E-08	2.02E-09	2.22E-08
644	577572.48	4194235.16	4.51E-07	1.40E-06	2.20E-07	0.00E+00	2.07E-06	7.03E-08	2.26E-07	3.47E-08	3.31E-07	3.09E-09	1.73E-08	2.03E-09	2.24E-08
645	577574.08	4194244.17	4.44E-07	1.38E-06	2.16E-07	0.00E+00	2.04E-06	6.92E-08	2.23E-07	3.41E-08	3.26E-07	3.04E-09	1.70E-08	2.00E-09	2.20E-08
646	577575.69	4194253.17	4.31E-07	1.34E-06	2.10E-07	0.00E+00	1.98E-06	6.71E-08	2.16E-07	3.31E-08	3.16E-07	2.95E-09	1.65E-08	1.94E-09	2.14E-08
647	577577.29	4194262.18	4.20E-07	1.31E-06	2.05E-07	0.00E+00	1.93E-06	6.55E-08	2.11E-07	3.23E-08	3.08E-07	2.87E-09	1.61E-08	1.89E-09	2.08E-08
648	577578.9	4194271.18	4.10E-07	1.27E-06	2.00E-07	0.00E+00	1.88E-06	6.39E-08	2.06E-07	3.15E-08	3.01E-07	2.80E-09	1.57E-08	1.85E-09	2.03E-08
649	577580.5	4194280.19	3.99E-07	1.24E-06	1.94E-07	0.00E+00	1.83E-06	6.21E-08	2.00E-07	3.06E-08	2.93E-07	2.73E-09	1.53E-08	1.80E-09	1.98E-08
650	577582.1	4194289.2	3.88E-07	1.20E-06	1.89E-07	0.00E+00	1.78E-06	6.04E-08	1.94E-07	2.98E-08	2.84E-07	2.65E-09	1.48E-08	1.75E-09	1.92E-08
651	577583.71	4194298.2	3.78E-07	1.18E-06	1.84E-07	0.00E+00	1.74E-06	5.89E-08	1.90E-07	2.91E-08	2.78E-07	2.59E-09	1.45E-08	1.71E-09	1.88E-08
652	577586.92	4194316.21	3.60E-07	1.12E-06	1.75E-07	0.00E+00	1.66E-06	5.61E-08	1.81E-07	2.77E-08	2.64E-07	2.46E-09	1.38E-08	1.62E-09	1.79E-08
653	577588.52	4194325.22	3.51E-07	1.09E-06	1.71E-07	0.00E+00	1.61E-06	5.46E-08	1.76E-07	2.69E-08	2.57E-07	2.40E-09	1.34E-08	1.58E-09	1.74E-08
654	577382.52	4194004.12	5.05E-07	1.57E-06	2.46E-07	0.00E+00	2.32E-06	7.86E-08	2.53E-07	3.88E-08	3.70E-07	3.45E-09	1.93E-08	2.28E-09	2.50E-08
655	577373.48	4194001.92	5.01E-07	1.56E-06	2.44E-07	0.00E+00	2.30E-06	7.81E-08	2.51E-07	3.85E-08	3.68E-07	3.43E-09	1.92E-08	2.26E-09	2.49E-08
656	577364.45	4193999.72	4.97E-07	1.54E-06	2.42E-07	0.00E+00	2.28E-06	7.74E-08	2.49E-07	3.82E-08	3.64E-07	3.40E-09	1.90E-08	2.24E-09	2.46E-08
657	577355.42	4193997.52	4.91E-07	1.53E-06	2.39E-07	0.00E+00	2.25E-06	7.64E-08	2.46E-07	3.77E-08	3.60E-07	3.36E-09	1.88E-08	2.21E-09	2.43E-08
658	577346.38	4193995.32	4.84E-07	1.50E-06	2.35E-07	0.00E+00	2.22E-06	7.53E-08	2.42E-07	3.72E-08	3.55E-07	3.31E-09	1.85E-08	2.18E-09	2.40E-08
659	577337.35	4193993.11	4.75E-07	1.48E-06	2.31E-07	0.00E+00	2.18E-06	7.41E-08	2.38E-07	3.65E-08	3.49E-07	3.25E-09	1.82E-08	2.14E-09	2.36E-08
660	577392.25	4193999.72	4.83E-07	1.50E-06	2.35E-07	0.00E+00	2.22E-06	7.53E-08	2.42E-07	3.71E-08	3.54E-07	3.30E-09	1.85E-08	2.18E-09	2.40E-08

661	577399.62	4194005.02	4.94E-07	1.54E-06	2.41E-07	0.00E+00	2.27E-06	7.70E-08	2.48E-07	3.80E-08	3.63E-07	3.38E-09	1.89E-08	2.23E-09	2.45E-08
662	577406.99	4194010.33	5.04E-07	1.57E-06	2.45E-07	0.00E+00	2.32E-06	7.85E-08	2.53E-07	3.87E-08	3.70E-07	3.45E-09	1.93E-08	2.27E-09	2.50E-08
663	577414.35	4194015.64	5.11E-07	1.59E-06	2.49E-07	0.00E+00	2.35E-06	7.97E-08	2.56E-07	3.93E-08	3.75E-07	3.50E-09	1.96E-08	2.31E-09	2.54E-08
664	577421.72	4194020.94	5.16E-07	1.61E-06	2.51E-07	0.00E+00	2.37E-06	8.05E-08	2.59E-07	3.97E-08	3.79E-07	3.53E-09	1.98E-08	2.33E-09	2.56E-08
665	577429.09	4194026.25	5.19E-07	1.61E-06	2.53E-07	0.00E+00	2.39E-06	8.09E-08	2.60E-07	3.99E-08	3.81E-07	3.55E-09	1.99E-08	2.34E-09	2.58E-08
666	577436.46	4194031.56	5.20E-07	1.62E-06	2.53E-07	0.00E+00	2.39E-06	8.10E-08	2.61E-07	4.00E-08	3.82E-07	3.56E-09	1.99E-08	2.34E-09	2.58E-08
667	577443.82	4194036.86	5.18E-07	1.61E-06	2.52E-07	0.00E+00	2.38E-06	8.08E-08	2.60E-07	3.98E-08	3.80E-07	3.55E-09	1.98E-08	2.34E-09	2.57E-08
668	577451.19	4194042.17	5.15E-07	1.60E-06	2.51E-07	0.00E+00	2.37E-06	8.02E-08	2.58E-07	3.96E-08	3.78E-07	3.52E-09	1.97E-08	2.32E-09	2.55E-08
669	577458.56	4194047.48	5.10E-07	1.58E-06	2.48E-07	0.00E+00	2.34E-06	7.94E-08	2.55E-07	3.92E-08	3.74E-07	3.48E-09	1.95E-08	2.30E-09	2.53E-08
670	577465.92	4194052.78	5.03E-07	1.56E-06	2.45E-07	0.00E+00	2.31E-06	7.84E-08	2.52E-07	3.87E-08	3.69E-07	3.44E-09	1.92E-08	2.27E-09	2.49E-08
671	577473.29	4194058.09	4.95E-07	1.54E-06	2.41E-07	0.00E+00	2.28E-06	7.72E-08	2.48E-07	3.81E-08	3.64E-07	3.39E-09	1.90E-08	2.23E-09	2.46E-08
672	577480.66	4194063.4	4.87E-07	1.51E-06	2.37E-07	0.00E+00	2.24E-06	7.59E-08	2.44E-07	3.74E-08	3.57E-07	3.33E-09	1.86E-08	2.20E-09	2.42E-08
673	577488.03	4194068.7	4.78E-07	1.48E-06	2.33E-07	0.00E+00	2.19E-06	7.44E-08	2.39E-07	3.67E-08	3.51E-07	3.27E-09	1.83E-08	2.15E-09	2.37E-08
674	577495.39	4194074.01	4.68E-07	1.45E-06	2.28E-07	0.00E+00	2.15E-06	7.29E-08	2.34E-07	3.60E-08	3.43E-07	3.20E-09	1.79E-08	2.11E-09	2.32E-08
675	577502.76	4194079.32	4.58E-07	1.42E-06	2.23E-07	0.00E+00	2.10E-06	7.13E-08	2.29E-07	3.52E-08	3.36E-07	3.13E-09	1.75E-08	2.06E-09	2.27E-08
676	577510.13	4194084.62	4.48E-07	1.39E-06	2.18E-07	0.00E+00	2.06E-06	6.98E-08	2.24E-07	3.44E-08	3.29E-07	3.06E-09	1.71E-08	2.02E-09	2.22E-08
677	577517.49	4194089.93	4.38E-07	1.36E-06	2.13E-07	0.00E+00	2.01E-06	6.82E-08	2.19E-07	3.36E-08	3.21E-07	2.99E-09	1.67E-08	1.97E-09	2.17E-08
678	577524.86	4194095.24	4.27E-07	1.33E-06	2.08E-07	0.00E+00	1.96E-06	6.65E-08	2.14E-07	3.28E-08	3.13E-07	2.92E-09	1.63E-08	1.93E-09	2.12E-08
679	577532.23	4194100.54	4.17E-07	1.30E-06	2.03E-07	0.00E+00	1.92E-06	6.49E-08	2.09E-07	3.20E-08	3.06E-07	2.85E-09	1.59E-08	1.88E-09	2.07E-08
680	577539.6	4194105.85	4.07E-07	1.26E-06	1.98E-07	0.00E+00	1.87E-06	6.33E-08	2.04E-07	3.12E-08	2.98E-07	2.78E-09	1.56E-08	1.83E-09	2.02E-08
681	577546.96	4194111.16	3.96E-07	1.23E-06	1.93E-07	0.00E+00	1.82E-06	6.17E-08	1.99E-07	3.05E-08	2.91E-07	2.71E-09	1.52E-08	1.79E-09	1.97E-08
682	577554.33	4194116.46	3.86E-07	1.20E-06	1.88E-07	0.00E+00	1.77E-06	6.01E-08	1.93E-07	2.96E-08	2.83E-07	2.64E-09	1.48E-08	1.74E-09	1.91E-08
683	577563.29	4194130.71	3.81E-07	1.18E-06	1.86E-07	0.00E+00	1.75E-06	5.94E-08	1.91E-07	2.93E-08	2.80E-07	2.61E-09	1.46E-08	1.72E-09	1.89E-08
684	577564.88	4194139.65	3.87E-07	1.20E-06	1.89E-07	0.00E+00	1.78E-06	6.04E-08	1.94E-07	2.98E-08	2.84E-07	2.65E-09	1.48E-08	1.75E-09	1.92E-08
685	577568.06	4194157.52	3.99E-07	1.24E-06	1.94E-07	0.00E+00	1.83E-06	6.22E-08	2.00E-07	3.07E-08	2.93E-07	2.73E-09	1.53E-08	1.80E-09	1.98E-08
686	577569.66	4194166.46	4.05E-07	1.26E-06	1.97E-07	0.00E+00	1.86E-06	6.30E-08	2.03E-07	3.11E-08	2.97E-07	2.77E-09	1.55E-08	1.82E-09	2.01E-08
687	577571.25	4194175.4	4.09E-07	1.27E-06	1.99E-07	0.00E+00	1.88E-06	6.38E-08	2.05E-07	3.15E-08	3.00E-07	2.80E-09	1.57E-08	1.85E-09	2.03E-08
688	577574.43	4194193.28	4.17E-07	1.30E-06	2.03E-07	0.00E+00	1.92E-06	6.50E-08	2.09E-07	3.21E-08	3.06E-07	2.85E-09	1.60E-08	1.88E-09	2.07E-08
689	577576.02	4194202.22	4.21E-07	1.31E-06	2.05E-07	0.00E+00	1.93E-06	6.55E-08	2.11E-07	3.23E-08	3.09E-07	2.88E-09	1.61E-08	1.90E-09	2.09E-08
690	577582.39	4194237.97	4.21E-07	1.31E-06	2.05E-07	0.00E+00	1.94E-06	6.56E-08	2.11E-07	3.24E-08	3.09E-07	2.88E-09	1.61E-08	1.90E-09	2.09E-08
691	577583.99	4194246.91	4.10E-07	1.27E-06	2.00E-07	0.00E+00	1.88E-06	6.39E-08	2.05E-07	3.15E-08	3.01E-07	2.80E-09	1.57E-08	1.85E-09	2.03E-08
692	577587.17	4194264.79	3.90E-07	1.21E-06	1.90E-07	0.00E+00	1.79E-06	6.07E-08	1.95E-07	2.99E-08	2.86E-07	2.66E-09	1.49E-08	1.76E-09	1.93E-08
693	577588.76	4194273.73	3.80E-07	1.18E-06	1.85E-07	0.00E+00	1.75E-06	5.93E-08	1.91E-07	2.92E-08	2.79E-07	2.60E-09	1.46E-08	1.72E-09	1.89E-08
694	577590.35	4194282.67	3.70E-07	1.15E-06	1.80E-07	0.00E+00	1.70E-06	5.77E-08	1.86E-07	2.85E-08	2.72E-07	2.53E-09	1.42E-08	1.67E-09	1.84E-08
695	577593.54	4194300.54	3.54E-07	1.10E-06	1.73E-07	0.00E+00	1.63E-06	5.52E-08	1.78E-07	2.72E-08	2.60E-07	2.42E-09	1.36E-08	1.60E-09	1.76E-08
696	577595.13	4194309.48	3.46E-07	1.08E-06	1.69E-07	0.00E+00	1.59E-06	5.40E-08	1.74E-07	2.66E-08	2.54E-07	2.37E-09	1.32E-08	1.56E-09	1.72E-08
697	577596.72	4194318.42	3.38E-07	1.05E-06	1.64E-07	0.00E+00	1.55E-06	5.26E-08	1.69E-07	2.60E-08	2.48E-07	2.31E-09	1.29E-08	1.52E-09	1.68E-08
698	577598.31	4194327.36	3.29E-07	1.02E-06	1.60E-07	0.00E+00	1.51E-06	5.13E-08	1.65E-07	2.53E-08	2.42E-07	2.25E-09	1.26E-08	1.49E-09	1.63E-08
699	577384.89	4193994.41	4.70E-07	1.46E-06	2.29E-07	0.00E+00	2.16E-06	7.33E-08	2.36E-07	3.61E-08	3.45E-07	3.22E-09	1.80E-08	2.12E-09	2.33E-08
700	577375.85	4193992.21	4.67E-07	1.45E-06	2.27E-07	0.00E+00	2.15E-06	7.28E-08	2.34E-07	3.59E-08	3.43E-07	3.19E-09	1.79E-08	2.11E-09	2.32E-08
701	577366.82	4193990	4.62E-07	1.44E-06	2.25E-07	0.00E+00	2.12E-06	7.20E-08	2.32E-07	3.55E-08	3.39E-07	3.16E-09	1.77E-08	2.09E-09	2.29E-08
702	577357.78	4193987.8	4.57E-07	1.42E-06	2.22E-07	0.00E+00	2.10E-06	7.12E-08	2.29E-07	3.51E-08	3.35E-07	3.12E-09	1.75E-08	2.06E-09	2.27E-08
703	577348.75	4193985.6	4.50E-07	1.40E-06	2.19E-07	0.00E+00	2.07E-06	7.01E-08	2.26E-07	3.46E-08	3.30E-07	3.08E-09	1.72E-08	2.03E-09	2.23E-08
704	577339.72	4193983.4	4.43E-07	1.38E-06	2.16E-07	0.00E+00	2.03E-06	6.90E-08	2.22E-07	3.40E-08	3.25E-07	3.03E-09	1.69E-08	2.00E-09	2.20E-08
705	577394.57	4193989.96	4.51E-07	1.40E-06	2.19E-07	0.00E+00	2.07E-06	7.02E-08	2.26E-07	3.46E-08	3.31E-07	3.08E-09	1.72E-08	2.03E-09	2.24E-08
706	577401.89	4193995.23	4.61E-07	1.43E-06	2.25E-07	0.00E+00	2.12E-06	7.19E-08	2.31E-07	3.55E-08	3.39E-07	3.16E-09	1.77E-08	2.08E-09	2.29E-08
707	577409.2	4194000.5	4.71E-07	1.46E-06	2.29E-07	0.00E+00	2.16E-06	7.33E-08	2.36E-07	3.62E-08	3.45E-07	3.22E-09	1.80E-08	2.12E-09	2.34E-08
708	577416.52	4194005.77	4.78E-07	1.49E-06	2.33E-07	0.00E+00	2.20E-06	7.45E-08	2.40E-07	3.67E-08	3.51E-07	3.27E-09	1.83E-08	2.16E-09	2.37E-08
709	577423.84	4194011.04	4.83E-07	1.50E-06	2.35E-07	0.00E+00	2.22E-06	7.53E-08	2.42E-07	3.72E-08	3.55E-07	3.31E-09	1.85E-08	2.18E-09	2.40E-08
710	577431.15	4194016.31	4.87E-07	1.51E-06	2.37E-07	0.00E+00	2.24E-06	7.58E-08	2.44E-07	3.74E-08	3.57E-07	3.33E-09	1.86E-08	2.19E-09	2.41E-08
711	577438.47	4194021.58	4.88E-07	1.52E-06	2.38E-07	0.00E+00	2.24E-06	7.60E-08	2.45E-07	3.75E-08	3.58E-07	3.34E-09	1.87E-08	2.20E-09	2.42E-08
712	577445.78	4194026.85	4.87E-07	1.52E-06	2.37E-07	0.00E+00	2.24E-06	7.60E-08	2.44E-07	3.75E-08	3.58E-07	3.33E-09	1.86E-08	2.20E-09	2.42E-08
713	577453.1	4194032.12	4.85E-07	1.51E-06	2.36E-07	0.00E+00	2.23E-06	7.56E-08	2.43E-07	3.73E-08	3.56E-07	3.32E-09	1.86E-08	2.19E-09	2.41E-08
714	577460.42	4194037.39	4.81E-07	1.50E-06	2.34E-07	0.00E+00	2.21E-06	7.50E-08	2.41E-07	3.70E-08	3.53E-07	3.29E-09	1.84E-08	2.17E-09	2.39E-08
715	577467.73	4194042.66	4.76E-07	1.48E-06	2.32E-07	0.00E+00	2.19E-06	7.41E-08	2.38E-07	3.66E-08	3.49E-07	3.25E-09	1.82E-08	2.15E-09	2.36E-08
716	577475.05	4194047.93	4.70E-07	1.46E-06	2.29E-07	0.00E+00	2.16E-06	7.32E-08	2.35E-07	3.61E-08	3.45E-07	3.21E-09	1.80E-08	2.12E-09	2.33E-08
717	577482.37	4194053.2	4.62E-07	1.44E-06	2.25E-07	0.00E+00	2.12E-06	7.21E-08	2.32E-07	3.55E-08	3.39E-07	3.16E-09	1.77E-08	2.09E-09	2.29E-08
718	577489.68	4194058.47	4.55E-07	1.41E-06	2.21E-07	0.00E+00	2.09E-06	7.08E-08	2.28E-07	3.49E-08	3.34E-07	3.11E-09	1.74E-08	2.05E-09	2.25E-08
719	577497	4194063.74	4.46E-07	1.39E-06	2.17E-07	0.00E+00	2.05E-06	6.95E-08	2.23E-07	3.43E-08	3.27E-07	3.05E-09	1.71E-08	2.01E-09	2.21E-08
720	577504.31	4194069.01	4.37E-07	1.36E-06	2.13E-07	0.00E+00	2.01E-06	6.81E-08	2.19E-07	3.36E-08	3.21E-07	2.99E-09	1.67E-08	1.97E-09	2.17E-08
721	577511.63	4194074.28	4.27E-07	1.33E-06	2.08E-07	0.00E+00	1.96E-06	6.66E-08	2.14E-07	3.28E-08	3.14E-07	2.92E-09	1.63E-08	1.93E-09	2.12E-08
722	577518.95	4194079.56	4.18E-07	1.30E-06	2.03E-07	0.00E+00	1.92E-06	6.51E-08	2.09E-07	3.21E-08	3.07E-07	2.86E-09	1.60E-08	1.89E-09	2.07E-08
723	577526.26	4194084.83	4.09E-07	1.27E-06	1.99E-07	0.00E+00	1.88E-06	6.37E-08	2.05E-07	3.14E-08	3.00E-07	2.79E-09	1.56E-08	1.84E-09	2.03E-08
724	577533.58	4194090.1	3.99E-07	1.24E-06	1.94E-07	0.00E+00	1.83E-06	6.22E-08	2.00E-07	3.07E-08	2.93E-07	2.73E-09	1.53E-08	1.80E-09	1.98E-08
725	577540.9	4194095.37	3.90E-07	1.21E-06	1.90E-07	0.00E+00	1.79E-06	6.08E-08	1.95E-07	3.00E-08	2.86E-07	2.67E-09	1.49E-08	1.76E-09	1.93E-08
726	577548.21	4194100.64	3.81E-07	1.18E-06	1.85E-07	0.00E+00	1.75E-06	5.93E-08	1.91E-07	2.93E-08	2.79E-07	2.60E-09	1.46E-08	1.72E-09	1.89E-08
727	577555.53	4194105.91	3.71E-07	1.15E-06	1.81E-07	0.00E+00	1.71E-06	5.78E-08	1.86E-07	2.85E-08	2.72E-07	2.54E-09	1.42E-08	1.67E-09	1.84E-08
728	577562.85	4194111.18	3.61E-07	1.12E-06	1.76E-07	0.00E+00	1.66E-06	5.62E-08	1.81E-07	2.77E-08	2.65E-07	2.47E-09	1.38E-08	1.63E-09	1.79E-08
729	577571.74	4194125.32	3.57E-07	1.11E-06	1.74E-07	0.00E+00	1.64E-06	5.56E-08	1.79E-07	2.74E-08	2.62E-07	2.44E-09	1.37E-08	1.61E-09	1.77E-08
730	577573.32	4194134.2	3.63E-07	1.13E-06	1.77E-07	0.00E+00	1.67E-06	5.66E-08	1.82E-07	2.79E-08	2.66E-07	2.48E-09	1.39E-08	1.64E-09	1.80E-08
731	577576.49	4194151.95	3.74E-07	1.16E-06	1.82E-07	0.00E+00	1.72E-06	5.82E-08	1.87E-07	2.87E-08	2.74E-07	2.56E-09	1.43E-08	1.69E-09	1.85E-08
732	577579.65	4194169.71	3.83E-07	1.19E-06	1.87E-07	0.00E+00	1.76E-06	5.97E-08	1.92E-07	2.95E-08	2.81E-07	2.62E-09	1.47E-08	1.73E-09	1.90E-08
733	577582.81	4194187.46	3.91E-07	1.21E-06	1.90E-07	0.00E+00	1.80E-06	6.09E-08	1.96E-07	3.00E-08	2.87E-07	2.67E-09	1.49E-08	1.76E-09	1.94E-08
734	577585.97	4194205.22	3.96E-07	1.23E-06	1.93E-07	0.00E+00	1.82E-06	6.17E-08	1.99E-07	3.04E-08	2.91E-07	2.71E-09	1.52E-08	1.79E-09	1.97E-08
735	577592.3	4194240.72	3.94E-07	1.23E-06	1.92E-07	0.00E+00	1.81E-06	6.15E-08	1.98E-07	3.03E-08	2.89E-07	2.70E-09	1.51E-08	1.78E-09	1.96E-08
736	577595.46	4194258.48	3.73E-07	1.16E-06	1.82E-07	0.00E+00	1.71E-06	5.81E-08	1.87E-07	2.87E-08	2.74E-07	2.55E-09	1.43E-08	1.68E-09	1.85E-08
737	577598.62	4194276.23	3.56E-07	1.11E-06	1.73E-07	0.00E+00	1.64E-06	5.55E-08	1.78E-07	2.74E-08	2.61E-07	2.43E-09	1.36E-08	1.61E-09	1.77E-08
738	577601.78	4194293.99	3.40E-07	1.06E-06	1.65E-07	0.00E+00	1.56E-06	5.29E-08	1.70E-07	2.61E-08	2.49E-07	2.32E-09	1.30E-08	1.53E-09	1.68E-08
739	577604.95	4194311.74	3.25E-07	1.01E-06	1.58E-07	0.00E+00	1.49E-06	5.07E-08	1.63E-07	2.50E-08	2.39E-07	2.22E-09	1.24E-08	1.47E-09	1.61E-08
740	577606.53	4194320.62	3.18E-07	9.87E-07	1.55E-07	0.00E+00	1.46E-06	4.95E-08	1.59E-07	2.44E-08	2.33E-07	2.17E-09	1.22E-08	1.43E-09	1.58E-08
741	577608.11	4194329.5	3.10E-07	9.65E-07	1.51E-07	0.00E+00	1.43E-06	4.84E-08	1.56E-07	2.39E-08	2.28E-07	2.12E-09	1.19E-08	1.40E-09	1.54E-08
742	577387.25	4193984.69	4.39E-07	1.36E-06	2.14E-07	0.00E+00	2.02E-06	6.84E-08	2.20E-07	3.37E-08	3.22E-07	3.00E-09	1.68E-08	1.98E-09	2.18E-08
743	577378.22	4193982.49	4.36E-07	1.35E-06	2.12E-07	0.00E+00	2.00E-06	6.79E-08	2.18E-07	3.35E-08	3.20E-07	2.98E-09	1.67E-08	1.96E-09	2.16E-08

744	577369.19	4193980.29	4.31E-07	1.34E-06	2.10E-07	0.00E+00	1.98E-06	6.72E-08	2.16E-07	3.31E-08	3.16E-07	2.95E-09	1.65E-08	1.94E-09	2.14E-08
745	577360.15	4193978.09	4.26E-07	1.32E-06	2.07E-07	0.00E+00	1.96E-06	6.63E-08	2.13E-07	3.27E-08	3.12E-07	2.91E-09	1.63E-08	1.92E-09	2.11E-08
746	577351.12	4193975.89	4.20E-07	1.30E-06	2.04E-07	0.00E+00	1.93E-06	6.54E-08	2.10E-07	3.23E-08	3.08E-07	2.87E-09	1.61E-08	1.89E-09	2.08E-08
747	577342.08	4193973.68	4.13E-07	1.28E-06	2.01E-07	0.00E+00	1.90E-06	6.44E-08	2.07E-07	3.17E-08	3.03E-07	2.82E-09	1.58E-08	1.86E-09	2.05E-08
748	577396.89	4193980.21	4.22E-07	1.31E-06	2.05E-07	0.00E+00	1.94E-06	6.57E-08	2.11E-07	3.24E-08	3.09E-07	2.88E-09	1.61E-08	1.90E-09	2.09E-08
749	577404.16	4193985.45	4.32E-07	1.34E-06	2.10E-07	0.00E+00	1.98E-06	6.72E-08	2.16E-07	3.32E-08	3.17E-07	2.95E-09	1.65E-08	1.95E-09	2.14E-08
750	577418.7	4193995.92	4.48E-07	1.39E-06	2.18E-07	0.00E+00	2.06E-06	6.98E-08	2.24E-07	3.44E-08	3.29E-07	3.06E-09	1.71E-08	2.02E-09	2.22E-08
751	577425.97	4194001.16	4.53E-07	1.41E-06	2.21E-07	0.00E+00	2.08E-06	7.06E-08	2.27E-07	3.48E-08	3.33E-07	3.10E-09	1.73E-08	2.04E-09	2.25E-08
752	577440.51	4194011.63	4.59E-07	1.43E-06	2.23E-07	0.00E+00	2.11E-06	7.15E-08	2.30E-07	3.53E-08	3.37E-07	3.14E-09	1.76E-08	2.07E-09	2.28E-08
753	577455.05	4194022.1	4.58E-07	1.42E-06	2.23E-07	0.00E+00	2.10E-06	7.13E-08	2.29E-07	3.52E-08	3.36E-07	3.13E-09	1.75E-08	2.06E-09	2.27E-08
754	577469.59	4194032.58	4.50E-07	1.40E-06	2.19E-07	0.00E+00	2.07E-06	7.02E-08	2.26E-07	3.46E-08	3.30E-07	3.08E-09	1.72E-08	2.03E-09	2.23E-08
755	577476.85	4194037.81	4.45E-07	1.38E-06	2.17E-07	0.00E+00	2.05E-06	6.94E-08	2.23E-07	3.42E-08	3.27E-07	3.04E-09	1.70E-08	2.01E-09	2.21E-08
756	577491.39	4194048.29	4.33E-07	1.34E-06	2.11E-07	0.00E+00	1.99E-06	6.74E-08	2.17E-07	3.33E-08	3.17E-07	2.96E-09	1.66E-08	1.95E-09	2.15E-08
757	577498.66	4194053.52	4.25E-07	1.32E-06	2.07E-07	0.00E+00	1.95E-06	6.62E-08	2.13E-07	3.27E-08	3.12E-07	2.91E-09	1.63E-08	1.92E-09	2.11E-08
758	577513.2	4194064	4.09E-07	1.27E-06	1.99E-07	0.00E+00	1.88E-06	6.37E-08	2.05E-07	3.14E-08	3.00E-07	2.80E-09	1.56E-08	1.84E-09	2.03E-08
759	577520.47	4194069.23	4.00E-07	1.24E-06	1.95E-07	0.00E+00	1.84E-06	6.23E-08	2.00E-07	3.07E-08	2.94E-07	2.74E-09	1.53E-08	1.80E-09	1.98E-08
760	577535.01	4194079.7	3.83E-07	1.19E-06	1.86E-07	0.00E+00	1.76E-06	5.96E-08	1.92E-07	2.94E-08	2.81E-07	2.62E-09	1.46E-08	1.72E-09	1.90E-08
761	577549.55	4194090.18	3.65E-07	1.14E-06	1.78E-07	0.00E+00	1.68E-06	5.69E-08	1.83E-07	2.81E-08	2.68E-07	2.50E-09	1.40E-08	1.65E-09	1.81E-08
762	577564.09	4194100.65	3.47E-07	1.08E-06	1.69E-07	0.00E+00	1.60E-06	5.41E-08	1.74E-07	2.67E-08	2.55E-07	2.38E-09	1.33E-08	1.57E-09	1.72E-08
763	577571.36	4194105.89	3.38E-07	1.05E-06	1.65E-07	0.00E+00	1.55E-06	5.27E-08	1.69E-07	2.60E-08	2.48E-07	2.31E-09	1.29E-08	1.52E-09	1.68E-08
764	577580.2	4194119.94	3.35E-07	1.04E-06	1.63E-07	0.00E+00	1.54E-06	5.22E-08	1.68E-07	2.57E-08	2.46E-07	2.29E-09	1.28E-08	1.51E-09	1.66E-08
765	577583.34	4194137.58	3.46E-07	1.07E-06	1.68E-07	0.00E+00	1.59E-06	5.39E-08	1.73E-07	2.66E-08	2.54E-07	2.36E-09	1.32E-08	1.56E-09	1.72E-08
766	577584.91	4194146.4	3.51E-07	1.09E-06	1.71E-07	0.00E+00	1.61E-06	5.46E-08	1.76E-07	2.69E-08	2.57E-07	2.40E-09	1.34E-08	1.58E-09	1.74E-08
767	577588.05	4194164.04	3.59E-07	1.12E-06	1.75E-07	0.00E+00	1.65E-06	5.60E-08	1.80E-07	2.76E-08	2.64E-07	2.46E-09	1.37E-08	1.62E-09	1.78E-08
768	577591.19	4194181.68	3.67E-07	1.14E-06	1.78E-07	0.00E+00	1.68E-06	5.71E-08	1.84E-07	2.82E-08	2.69E-07	2.51E-09	1.40E-08	1.65E-09	1.82E-08
769	577594.34	4194199.32	3.72E-07	1.16E-06	1.81E-07	0.00E+00	1.71E-06	5.79E-08	1.86E-07	2.86E-08	2.73E-07	2.54E-09	1.42E-08	1.68E-09	1.84E-08
770	577595.91	4194208.14	3.74E-07	1.16E-06	1.82E-07	0.00E+00	1.72E-06	5.82E-08	1.87E-07	2.87E-08	2.74E-07	2.55E-09	1.43E-08	1.68E-09	1.85E-08
771	577602.19	4194243.42	3.69E-07	1.15E-06	1.80E-07	0.00E+00	1.70E-06	5.75E-08	1.85E-07	2.84E-08	2.71E-07	2.52E-09	1.41E-08	1.66E-09	1.83E-08
772	577605.33	4194261.06	3.50E-07	1.09E-06	1.71E-07	0.00E+00	1.61E-06	5.46E-08	1.76E-07	2.69E-08	2.57E-07	2.40E-09	1.34E-08	1.58E-09	1.74E-08
773	577606.9	4194269.88	3.42E-07	1.06E-06	1.67E-07	0.00E+00	1.57E-06	5.33E-08	1.72E-07	2.63E-08	2.51E-07	2.34E-09	1.31E-08	1.54E-09	1.70E-08
774	577610.05	4194287.53	3.25E-07	1.01E-06	1.58E-07	0.00E+00	1.49E-06	5.06E-08	1.63E-07	2.50E-08	2.38E-07	2.22E-09	1.24E-08	1.47E-09	1.61E-08
775	577613.19	4194305.17	3.13E-07	9.72E-07	1.52E-07	0.00E+00	1.44E-06	4.87E-08	1.57E-07	2.40E-08	2.29E-07	2.14E-09	1.20E-08	1.41E-09	1.55E-08
776	577614.76	4194313.99	3.06E-07	9.52E-07	1.49E-07	0.00E+00	1.41E-06	4.77E-08	1.54E-07	2.35E-08	2.25E-07	2.09E-09	1.17E-08	1.38E-09	1.52E-08
777	577616.33	4194322.81	3.01E-07	9.34E-07	1.46E-07	0.00E+00	1.38E-06	4.68E-08	1.51E-07	2.31E-08	2.21E-07	2.06E-09	1.15E-08	1.36E-09	1.49E-08
778	577380.59	4193972.78	4.07E-07	1.27E-06	1.98E-07	0.00E+00	1.87E-06	6.34E-08	2.04E-07	3.13E-08	2.99E-07	2.78E-09	1.56E-08	1.84E-09	2.02E-08
779	577371.55	4193970.57	4.03E-07	1.25E-06	1.96E-07	0.00E+00	1.85E-06	6.28E-08	2.02E-07	3.10E-08	2.96E-07	2.75E-09	1.54E-08	1.82E-09	2.00E-08
780	577362.52	4193968.37	3.98E-07	1.24E-06	1.94E-07	0.00E+00	1.83E-06	6.20E-08	1.99E-07	3.06E-08	2.92E-07	2.72E-09	1.52E-08	1.79E-09	1.97E-08
781	577353.49	4193966.17	3.92E-07	1.22E-06	1.91E-07	0.00E+00	1.80E-06	6.11E-08	1.96E-07	3.01E-08	2.88E-07	2.68E-09	1.50E-08	1.77E-09	1.94E-08
782	577344.45	4193963.97	3.86E-07	1.20E-06	1.88E-07	0.00E+00	1.77E-06	6.01E-08	1.93E-07	2.97E-08	2.83E-07	2.64E-09	1.48E-08	1.74E-09	1.91E-08
783	577399.49	4193970.67	3.95E-07	1.23E-06	1.92E-07	0.00E+00	1.82E-06	6.16E-08	1.98E-07	3.04E-08	2.90E-07	2.70E-09	1.51E-08	1.78E-09	1.96E-08
784	577407	4193976.07	4.05E-07	1.26E-06	1.97E-07	0.00E+00	1.86E-06	6.31E-08	2.03E-07	3.11E-08	2.97E-07	2.77E-09	1.55E-08	1.83E-09	2.01E-08
785	577414.5	4193981.48	4.14E-07	1.29E-06	2.01E-07	0.00E+00	1.90E-06	6.45E-08	2.07E-07	3.18E-08	3.04E-07	2.83E-09	1.58E-08	1.87E-09	2.05E-08
786	577422.01	4193986.88	4.21E-07	1.31E-06	2.05E-07	0.00E+00	1.93E-06	6.56E-08	2.11E-07	3.24E-08	3.09E-07	2.88E-09	1.61E-08	1.90E-09	2.09E-08
787	577429.51	4193992.29	4.27E-07	1.33E-06	2.08E-07	0.00E+00	1.96E-06	6.65E-08	2.14E-07	3.28E-08	3.13E-07	2.92E-09	1.63E-08	1.92E-09	2.12E-08
788	577437.01	4193997.69	4.30E-07	1.34E-06	2.09E-07	0.00E+00	1.98E-06	6.70E-08	2.16E-07	3.31E-08	3.16E-07	2.94E-09	1.65E-08	1.94E-09	2.13E-08
789	577444.52	4194003.1	4.32E-07	1.34E-06	2.10E-07	0.00E+00	1.99E-06	6.74E-08	2.17E-07	3.32E-08	3.17E-07	2.96E-09	1.65E-08	1.95E-09	2.14E-08
790	577452.02	4194008.5	4.33E-07	1.34E-06	2.11E-07	0.00E+00	1.99E-06	6.74E-08	2.17E-07	3.33E-08	3.18E-07	2.96E-09	1.66E-08	1.95E-09	2.15E-08
791	577459.53	4194013.91	4.31E-07	1.34E-06	2.10E-07	0.00E+00	1.98E-06	6.72E-08	2.16E-07	3.32E-08	3.17E-07	2.95E-09	1.65E-08	1.95E-09	2.14E-08
792	577467.03	4194019.31	4.29E-07	1.33E-06	2.09E-07	0.00E+00	1.97E-06	6.68E-08	2.15E-07	3.30E-08	3.15E-07	2.93E-09	1.64E-08	1.93E-09	2.13E-08
793	577474.53	4194024.72	4.25E-07	1.32E-06	2.07E-07	0.00E+00	1.95E-06	6.62E-08	2.13E-07	3.26E-08	3.12E-07	2.90E-09	1.62E-08	1.92E-09	2.11E-08
794	577482.04	4194030.12	4.20E-07	1.31E-06	2.04E-07	0.00E+00	1.93E-06	6.54E-08	2.10E-07	3.23E-08	3.08E-07	2.87E-09	1.61E-08	1.89E-09	2.08E-08
795	577489.54	4194035.53	4.14E-07	1.29E-06	2.02E-07	0.00E+00	1.90E-06	6.45E-08	2.08E-07	3.18E-08	3.04E-07	2.83E-09	1.58E-08	1.87E-09	2.06E-08
796	577497.04	4194040.94	4.08E-07	1.27E-06	1.99E-07	0.00E+00	1.88E-06	6.36E-08	2.05E-07	3.14E-08	2.99E-07	2.79E-09	1.56E-08	1.84E-09	2.02E-08
797	577504.55	4194046.34	4.01E-07	1.25E-06	1.95E-07	0.00E+00	1.84E-06	6.25E-08	2.01E-07	3.08E-08	2.94E-07	2.74E-09	1.54E-08	1.81E-09	1.99E-08
798	577512.05	4194051.75	3.94E-07	1.22E-06	1.92E-07	0.00E+00	1.81E-06	6.13E-08	1.97E-07	3.03E-08	2.89E-07	2.69E-09	1.51E-08	1.78E-09	1.95E-08
799	577519.56	4194057.15	3.86E-07	1.20E-06	1.88E-07	0.00E+00	1.77E-06	6.01E-08	1.93E-07	2.97E-08	2.83E-07	2.64E-09	1.48E-08	1.74E-09	1.91E-08
800	577527.06	4194062.56	3.78E-07	1.17E-06	1.84E-07	0.00E+00	1.74E-06	5.88E-08	1.89E-07	2.90E-08	2.77E-07	2.58E-09	1.44E-08	1.70E-09	1.87E-08
801	577534.56	4194067.96	3.69E-07	1.15E-06	1.80E-07	0.00E+00	1.70E-06	5.75E-08	1.85E-07	2.84E-08	2.71E-07	2.52E-09	1.41E-08	1.66E-09	1.83E-08
802	577542.07	4194073.37	3.61E-07	1.12E-06	1.76E-07	0.00E+00	1.66E-06	5.62E-08	1.81E-07	2.77E-08	2.65E-07	2.47E-09	1.38E-08	1.63E-09	1.79E-08
803	577549.57	4194078.77	3.52E-07	1.09E-06	1.71E-07	0.00E+00	1.62E-06	5.49E-08	1.77E-07	2.71E-08	2.58E-07	2.41E-09	1.35E-08	1.59E-09	1.75E-08
804	577557.08	4194084.18	3.44E-07	1.07E-06	1.67E-07	0.00E+00	1.58E-06	5.36E-08	1.72E-07	2.64E-08	2.52E-07	2.35E-09	1.32E-08	1.55E-09	1.71E-08
805	577564.58	4194089.58	3.35E-07	1.04E-06	1.63E-07	0.00E+00	1.54E-06	5.22E-08	1.68E-07	2.58E-08	2.46E-07	2.29E-09	1.28E-08	1.51E-09	1.66E-08
806	577572.08	4194094.99	3.26E-07	1.01E-06	1.59E-07	0.00E+00	1.50E-06	5.09E-08	1.64E-07	2.51E-08	2.40E-07	2.23E-09	1.25E-08	1.47E-09	1.62E-08
807	577579.59	4194100.39	3.18E-07	9.87E-07	1.55E-07	0.00E+00	1.46E-06	4.95E-08	1.59E-07	2.44E-08	2.33E-07	2.17E-09	1.22E-08	1.43E-09	1.58E-08
808	577588.71	4194114.9	3.15E-07	9.78E-07	1.53E-07	0.00E+00	1.45E-06	4.90E-08	1.58E-07	2.42E-08	2.31E-07	2.15E-09	1.20E-08	1.42E-09	1.56E-08
809	577590.33	4194124.01	3.20E-07	9.94E-07	1.56E-07	0.00E+00	1.47E-06	4.99E-08	1.60E-07	2.46E-08	2.35E-07	2.19E-09	1.22E-08	1.44E-09	1.59E-08
810	577591.96	4194133.11	3.25E-07	1.01E-06	1.58E-07	0.00E+00	1.49E-06	5.07E-08	1.63E-07	2.50E-08	2.39E-07	2.22E-09	1.24E-08	1.47E-09	1.61E-08
811	577593.58	4194142.22	3.30E-07	1.03E-06	1.61E-07	0.00E+00	1.52E-06	5.14E-08	1.65E-07	2.54E-08	2.42E-07	2.26E-09	1.26E-08	1.49E-09	1.64E-08
812	577595.2	4194151.32	3.34E-07	1.04E-06	1.63E-07	0.00E+00	1.54E-06	5.21E-08	1.67E-07	2.57E-08	2.45E-07	2.29E-09	1.28E-08	1.51E-09	1.66E-08
813	577596.82	4194160.43	3.38E-07	1.05E-06	1.65E-07	0.00E+00	1.55E-06	5.27E-08	1.69E-07	2.60E-08	2.48E-07	2.31E-09	1.29E-08	1.53E-09	1.68E-08
814	577598.44	4194169.53	3.42E-07	1.06E-06	1.66E-07	0.00E+00	1.57E-06	5.33E-08	1.71E-07	2.63E-08	2.51E-07	2.34E-09	1.31E-08	1.54E-09	1.70E-08
815	577600.06	4194178.64	3.45E-07	1.07E-06	1.68E-07	0.00E+00	1.59E-06	5.38E-08	1.73E-07	2.65E-08	2.53E-07	2.36E-09	1.32E-08	1.56E-09	1.71E-08
816	577601.69	4194187.74	3.48E-07	1.08E-06	1.69E-07	0.00E+00	1.60E-06	5.42E-08	1.74E-07	2.67E-08	2.55E-07	2.38E-09	1.33E-08	1.57E-09	1.73E-08
817	577603.31	4194196.84	3.50E-07	1.09E-06	1.71E-07	0.00E+00	1.61E-06	5.46E-08	1.76E-07	2.69E-08	2.57E-07	2.40E-09	1.34E-08	1.58E-09	1.74E-08
818	577604.93	4194205.95	3.52E-07	1.09E-06	1.71E-07	0.00E+00	1.62E-06	5.48E-08	1.76E-07	2.71E-08	2.58E-07	2.41E-09	1.35E-08	1.59E-09	1.75E-08
819	577611.42	4194242.37	3.49E-07	1.09E-06	1.70E-07	0.00E+00	1.60E-06	5.44E-08	1.75E-07	2.68E-08	2.56E-07	2.39E-09	1.34E-08	1.57E-09	1.73E-08
820	577613.04	4194251.47	3.40E-07	1.06E-06	1.66E-07	0.00E+00	1.56E-06	5.30E-08	1.71E-07	2.62E-08	2.50E-07	2.33E-09	1.30E-08	1.53E-09	1.69E-08
821	577614.66	4194260.58	3.32E-07	1.03E-06	1.62E-07	0.00E+00	1.53E-06	5.18E-08	1.67E-07	2.55E-08	2.44E-07	2.27E-09	1.27E-08	1.50E-09	1.65E-08
822	577616.28	4194269.68	3.25E-07	1.01E-06	1.58E-07	0.00E+00	1.49E-06	5.07E-08	1.63E-07	2.50E-08	2.39E-07	2.22E-09	1.24E-08	1.47E-09	1.61E-08
823	577617.9	4194278.79	3.18E-07	9.88E-07	1.55E-07	0.00E+00	1.46E-06	4.95E-08	1.59E-07	2.44E-08	2.33E-07	2.17E-09	1.22E-08	1.43E-09	1.58E-08
824	577619.52	4194287.89	3.11E-07	9.66E-07	1.51E-07	0.00E+00	1.43E-06	4.84E-08	1.56E-07	2.39E-08	2.28E-07	2.13E-09	1.19E-08	1.40E-09	1.54E-08
825	577621.15	4194297	3.06E-07	9.50E-07	1.49E-07	0.00E+00	1.41E-06	4.76E-08	1.53E-07	2.35E-08	2.24E-07	2.09E-09	1.17E-08	1.38E-09	1.52E-08
826	577622.77	4194306.1	3.00E-07	9.33E-07	1.46E-07	0.00E+00	1.38E-06	4.68E-08	1.50E-07	2.31E-08	2.20E-07	2.05E-09	1.15E-08	1.35E-09	1.49E-08

827	577624.39	4194315.21	2.94E-07	9.14E-07	1.43E-07	0.00E+00	1.35E-06	4.58E-08	1.47E-07	2.26E-08	2.16E-07	2.01E-09	1.12E-08	1.33E-09	1.46E-08
828	577626.01	4194324.31	2.88E-07	8.95E-07	1.40E-07	0.00E+00	1.32E-06	4.49E-08	1.44E-07	2.21E-08	2.11E-07	1.97E-09	1.10E-08	1.30E-09	1.43E-08
829	577627.63	4194333.42	2.82E-07	8.75E-07	1.37E-07	0.00E+00	1.29E-06	4.39E-08	1.41E-07	2.16E-08	2.07E-07	1.93E-09	1.08E-08	1.27E-09	1.40E-08
830	577391.99	4193965.26	3.85E-07	1.20E-06	1.87E-07	0.00E+00	1.77E-06	5.99E-08	1.93E-07	2.96E-08	2.82E-07	2.63E-09	1.47E-08	1.73E-09	1.91E-08
831	577382.96	4193963.06	3.81E-07	1.19E-06	1.86E-07	0.00E+00	1.75E-06	5.94E-08	1.91E-07	2.93E-08	2.80E-07	2.61E-09	1.46E-08	1.72E-09	1.89E-08
832	577373.92	4193960.86	3.77E-07	1.17E-06	1.84E-07	0.00E+00	1.73E-06	5.87E-08	1.89E-07	2.90E-08	2.77E-07	2.58E-09	1.44E-08	1.70E-09	1.87E-08
833	577364.89	4193958.66	3.72E-07	1.16E-06	1.81E-07	0.00E+00	1.71E-06	5.80E-08	1.87E-07	2.86E-08	2.73E-07	2.55E-09	1.42E-08	1.68E-09	1.85E-08
834	577355.85	4193956.45	3.67E-07	1.14E-06	1.79E-07	0.00E+00	1.69E-06	5.72E-08	1.84E-07	2.82E-08	2.69E-07	2.51E-09	1.40E-08	1.65E-09	1.82E-08
835	577346.82	4193954.25	3.61E-07	1.12E-06	1.76E-07	0.00E+00	1.66E-06	5.63E-08	1.81E-07	2.78E-08	2.65E-07	2.47E-09	1.38E-08	1.63E-09	1.79E-08
836	577260.46	4194242.13	1.64E-05	5.09E-05	7.97E-06	0.00E+00	7.52E-05	2.55E-06	8.20E-06	1.26E-06	1.20E-05	1.12E-07	6.26E-07	7.38E-08	8.12E-07
837	577262.74	4194232.39	1.33E-05	4.15E-05	6.49E-06	0.00E+00	6.13E-05	2.08E-06	6.69E-06	1.03E-06	9.79E-06	9.12E-08	5.10E-07	6.02E-08	6.62E-07
838	577265.02	4194222.66	1.09E-05	3.37E-05	5.29E-06	0.00E+00	4.99E-05	1.69E-06	5.44E-06	8.34E-07	7.97E-06	7.42E-08	4.15E-07	4.90E-08	5.39E-07
839	577267.3	4194212.92	8.28E-06	2.57E-05	4.03E-06	0.00E+00	3.81E-05	1.29E-06	4.15E-06	6.37E-07	6.08E-06	5.66E-08	3.17E-07	3.73E-08	4.11E-07
840	577269.59	4194203.18	6.34E-06	1.97E-05	3.09E-06	0.00E+00	2.91E-05	9.88E-07	3.18E-06	4.87E-07	4.65E-06	4.34E-08	2.43E-07	2.86E-08	3.15E-07
841	577271.87	4194193.45	5.04E-06	1.57E-05	2.45E-06	0.00E+00	2.31E-05	7.85E-07	2.52E-06	3.87E-07	3.69E-06	3.44E-08	1.93E-07	2.27E-08	2.50E-07
842	577274.15	4194183.71	4.16E-06	1.29E-05	2.03E-06	0.00E+00	1.91E-05	6.48E-07	2.09E-06	3.20E-07	3.05E-06	2.85E-08	1.59E-07	1.88E-08	2.06E-07
843	577280.99	4194154.5	2.54E-06	7.90E-06	1.24E-06	0.00E+00	1.17E-05	3.96E-07	1.27E-06	1.95E-07	1.86E-06	1.74E-08	9.72E-08	1.15E-08	1.26E-07
844	577283.27	4194144.77	2.20E-06	6.85E-06	1.07E-06	0.00E+00	1.01E-05	3.44E-07	1.10E-06	1.69E-07	1.62E-06	1.51E-08	8.43E-08	9.94E-09	1.09E-07
845	577285.55	4194135.03	1.93E-06	5.99E-06	9.38E-07	0.00E+00	8.85E-06	3.00E-07	9.66E-07	1.48E-07	1.41E-06	1.32E-08	7.37E-08	8.69E-09	9.56E-08
846	577295.4	4194127.07	1.74E-06	5.42E-06	8.49E-07	0.00E+00	8.02E-06	2.72E-07	8.74E-07	1.34E-07	1.28E-06	1.19E-08	6.67E-08	7.87E-09	8.65E-08
847	577280.26	4194123.52	1.63E-06	5.08E-06	7.96E-07	0.00E+00	7.51E-06	2.55E-07	8.19E-07	1.26E-07	1.20E-06	1.12E-08	6.25E-08	7.37E-09	8.11E-08
848	577297.68	4194117.33	1.54E-06	4.79E-06	7.50E-07	0.00E+00	7.08E-06	2.40E-07	7.73E-07	1.18E-07	1.13E-06	1.05E-08	5.90E-08	6.95E-09	7.65E-08
849	577282.54	4194113.78	1.45E-06	4.50E-06	7.05E-07	0.00E+00	6.66E-06	2.26E-07	7.26E-07	1.11E-07	1.06E-06	9.91E-09	5.54E-08	6.53E-09	7.19E-08
850	577299.96	4194107.59	1.37E-06	4.26E-06	6.68E-07	0.00E+00	6.30E-06	2.14E-07	6.87E-07	1.05E-07	1.01E-06	9.38E-09	5.25E-08	6.18E-09	6.80E-08
851	577284.82	4194104.05	1.29E-06	4.02E-06	6.29E-07	0.00E+00	5.94E-06	2.01E-07	6.48E-07	9.94E-08	9.49E-07	8.84E-09	4.95E-08	5.83E-09	6.41E-08
852	577302.24	4194097.86	1.23E-06	3.81E-06	5.97E-07	0.00E+00	5.64E-06	1.91E-07	6.15E-07	9.43E-08	9.00E-07	8.39E-09	4.69E-08	5.53E-09	6.08E-08
853	577287.1	4194094.31	1.16E-06	3.61E-06	5.65E-07	0.00E+00	5.34E-06	1.81E-07	5.82E-07	8.93E-08	8.52E-07	7.94E-09	4.44E-08	5.24E-09	5.76E-08
854	577304.53	4194088.12	1.10E-06	3.43E-06	5.37E-07	0.00E+00	5.06E-06	1.72E-07	5.52E-07	8.47E-08	8.09E-07	7.54E-09	4.22E-08	4.97E-09	5.47E-08
855	577289.39	4194084.57	1.05E-06	3.26E-06	5.10E-07	0.00E+00	4.81E-06	1.63E-07	5.25E-07	8.05E-08	7.69E-07	7.17E-09	4.01E-08	4.73E-09	5.20E-08
856	577306.81	4194078.38	9.95E-07	3.09E-06	4.84E-07	0.00E+00	4.57E-06	1.55E-07	4.99E-07	7.65E-08	7.30E-07	6.80E-09	3.81E-08	4.49E-09	4.93E-08
857	577291.67	4194074.84	9.49E-07	2.95E-06	4.62E-07	0.00E+00	4.36E-06	1.48E-07	4.76E-07	7.30E-08	6.97E-07	6.49E-09	3.63E-08	4.28E-09	4.71E-08
858	577309.09	4194068.65	9.03E-07	2.81E-06	4.39E-07	0.00E+00	4.15E-06	1.41E-07	4.52E-07	6.94E-08	6.62E-07	6.17E-09	3.45E-08	4.07E-09	4.48E-08
859	577293.95	4194065.1	8.63E-07	2.68E-06	4.20E-07	0.00E+00	3.97E-06	1.35E-07	4.33E-07	6.64E-08	6.34E-07	5.90E-09	3.30E-08	3.89E-09	4.28E-08
860	577311.37	4194058.91	8.22E-07	2.56E-06	4.00E-07	0.00E+00	3.78E-06	1.28E-07	4.12E-07	6.32E-08	6.03E-07	5.62E-09	3.15E-08	3.71E-09	4.08E-08
861	577296.23	4194055.37	7.88E-07	2.45E-06	3.84E-07	0.00E+00	3.62E-06	1.23E-07	3.95E-07	6.06E-08	5.78E-07	5.39E-09	3.02E-08	3.55E-09	3.91E-08
862	577313.65	4194049.18	7.52E-07	2.34E-06	3.66E-07	0.00E+00	3.45E-06	1.17E-07	3.77E-07	5.78E-08	5.52E-07	5.14E-09	2.88E-08	3.39E-09	3.73E-08
863	577298.51	4194045.63	7.22E-07	2.24E-06	3.51E-07	0.00E+00	3.32E-06	1.12E-07	3.62E-07	5.55E-08	5.30E-07	4.94E-09	2.76E-08	3.26E-09	3.58E-08
864	577315.93	4194039.44	6.89E-07	2.14E-06	3.36E-07	0.00E+00	3.17E-06	1.07E-07	3.46E-07	5.30E-08	5.06E-07	4.71E-09	2.64E-08	3.11E-09	3.42E-08
865	577300.79	4194035.89	6.63E-07	2.06E-06	3.23E-07	0.00E+00	3.05E-06	1.03E-07	3.32E-07	5.09E-08	4.86E-07	4.53E-09	2.54E-08	2.99E-09	3.29E-08
866	577318.21	4194029.7	6.34E-07	1.97E-06	3.09E-07	0.00E+00	2.91E-06	9.88E-08	3.18E-07	4.87E-08	4.65E-07	4.34E-09	2.43E-08	2.86E-09	3.15E-08
867	577303.07	4194026.16	6.11E-07	1.90E-06	2.97E-07	0.00E+00	2.81E-06	9.52E-08	3.06E-07	4.69E-08	4.48E-07	4.18E-09	2.34E-08	2.75E-09	3.03E-08
868	577320.49	4194019.97	5.85E-07	1.82E-06	2.85E-07	0.00E+00	2.69E-06	9.12E-08	2.93E-07	4.50E-08	4.29E-07	4.00E-09	2.24E-08	2.64E-09	2.90E-08
869	577305.35	4194016.42	5.64E-07	1.75E-06	2.75E-07	0.00E+00	2.59E-06	8.79E-08	2.83E-07	4.34E-08	4.14E-07	3.86E-09	2.16E-08	2.54E-09	2.80E-08
870	577322.77	4194010.23	5.41E-07	1.68E-06	2.63E-07	0.00E+00	2.49E-06	8.43E-08	2.71E-07	4.16E-08	3.97E-07	3.70E-09	2.07E-08	2.44E-09	2.68E-08
871	577307.63	4194006.68	5.22E-07	1.62E-06	2.54E-07	0.00E+00	2.40E-06	8.14E-08	2.62E-07	4.02E-08	3.83E-07	3.57E-09	2.00E-08	2.36E-09	2.59E-08
872	577325.05	4194000.49	5.02E-07	1.56E-06	2.44E-07	0.00E+00	2.30E-06	7.81E-08	2.51E-07	3.85E-08	3.68E-07	3.43E-09	1.92E-08	2.26E-09	2.49E-08
873	577309.91	4193996.95	4.85E-07	1.51E-06	2.36E-07	0.00E+00	2.23E-06	7.56E-08	2.43E-07	3.73E-08	3.56E-07	3.32E-09	1.86E-08	2.19E-09	2.41E-08
874	577327.33	4193990.76	4.66E-07	1.45E-06	2.27E-07	0.00E+00	2.14E-06	7.26E-08	2.34E-07	3.58E-08	3.42E-07	3.19E-09	1.78E-08	2.10E-09	2.31E-08
875	577312.19	4193987.21	4.51E-07	1.40E-06	2.20E-07	0.00E+00	2.07E-06	7.03E-08	2.26E-07	3.47E-08	3.31E-07	3.09E-09	1.73E-08	2.03E-09	2.24E-08
876	577329.61	4193981.02	4.34E-07	1.35E-06	2.11E-07	0.00E+00	1.99E-06	6.76E-08	2.18E-07	3.34E-08	3.19E-07	2.97E-09	1.66E-08	1.96E-09	2.15E-08
877	577314.47	4193977.47	4.21E-07	1.31E-06	2.05E-07	0.00E+00	1.93E-06	6.56E-08	2.11E-07	3.23E-08	3.09E-07	2.88E-09	1.61E-08	1.90E-09	2.09E-08
878	577331.9	4193971.28	4.05E-07	1.26E-06	1.97E-07	0.00E+00	1.86E-06	6.31E-08	2.03E-07	3.11E-08	2.97E-07	2.77E-09	1.55E-08	1.83E-09	2.01E-08
879	577316.76	4193967.74	3.93E-07	1.22E-06	1.92E-07	0.00E+00	1.81E-06	6.13E-08	1.97E-07	3.02E-08	2.89E-07	2.69E-09	1.50E-08	1.77E-09	1.95E-08
880	577334.18	4193961.55	3.79E-07	1.18E-06	1.84E-07	0.00E+00	1.74E-06	5.90E-08	1.90E-07	2.91E-08	2.78E-07	2.59E-09	1.45E-08	1.71E-09	1.88E-08
881	577319.04	4193958	3.68E-07	1.15E-06	1.79E-07	0.00E+00	1.69E-06	5.74E-08	1.85E-07	2.83E-08	2.70E-07	2.52E-09	1.41E-08	1.66E-09	1.83E-08
882	577336.46	4193951.81	3.55E-07	1.10E-06	1.73E-07	0.00E+00	1.63E-06	5.53E-08	1.78E-07	2.73E-08	2.61E-07	2.43E-09	1.36E-08	1.60E-09	1.76E-08
883	577321.32	4193948.26	3.45E-07	1.07E-06	1.68E-07	0.00E+00	1.59E-06	5.38E-08	1.73E-07	2.66E-08	2.54E-07	2.36E-09	1.32E-08	1.56E-09	1.71E-08
884	577232.06	4194246.19	8.69E-06	2.70E-05	4.23E-06	0.00E+00	3.99E-05	1.35E-06	4.36E-06	6.68E-07	6.38E-06	5.94E-08	3.33E-07	3.92E-08	4.31E-07
885	577243.28	4194238.33	1.03E-05	3.20E-05	5.01E-06	0.00E+00	4.73E-05	1.60E-06	5.16E-06	7.92E-07	7.56E-06	7.04E-08	3.94E-07	4.64E-08	5.11E-07
886	577234.11	4194236.41	8.25E-06	2.56E-05	4.01E-06	0.00E+00	3.79E-05	1.29E-06	4.13E-06	6.34E-07	6.05E-06	5.64E-08	3.16E-07	3.72E-08	4.09E-07
887	577245.33	4194228.55	9.10E-06	2.83E-05	4.43E-06	0.00E+00	4.18E-05	1.42E-06	4.56E-06	6.99E-07	6.67E-06	6.22E-08	3.48E-07	4.10E-08	4.51E-07
888	577236.17	4194226.62	7.55E-06	2.35E-05	3.67E-06	0.00E+00	3.47E-05	1.18E-06	3.78E-06	5.80E-07	5.54E-06	5.16E-08	2.89E-07	3.40E-08	3.74E-07
889	577247.39	4194218.76	8.03E-06	2.50E-05	3.91E-06	0.00E+00	3.69E-05	1.25E-06	4.03E-06	6.17E-07	5.89E-06	5.49E-08	3.07E-07	3.62E-08	3.98E-07
890	577238.22	4194216.83	6.90E-06	2.15E-05	3.36E-06	0.00E+00	3.17E-05	1.08E-06	3.46E-06	5.30E-07	5.06E-06	4.72E-08	2.64E-07	3.11E-08	3.42E-07
891	577249.44	4194208.97	6.77E-06	2.10E-05	3.29E-06	0.00E+00	3.11E-05	1.05E-06	3.39E-06	5.20E-07	4.96E-06	4.63E-08	2.59E-07	3.05E-08	3.36E-07
892	577240.28	4194207.05	6.00E-06	1.87E-05	2.92E-06	0.00E+00	2.76E-05	9.35E-07	3.01E-06	4.61E-07	4.40E-06	4.10E-08	2.30E-07	2.71E-08	2.98E-07
893	577260.66	4194201.11	5.81E-06	1.81E-05	2.83E-06	0.00E+00	2.67E-05	9.06E-07	2.91E-06	4.47E-07	4.27E-06	3.98E-08	2.22E-07	2.62E-08	2.88E-07
894	577251.5	4194199.19	5.28E-06	1.64E-05	2.57E-06	0.00E+00	2.42E-05	8.22E-07	2.64E-06	4.06E-07	3.87E-06	3.61E-08	2.02E-07	2.38E-08	2.62E-07
895	577242.33	4194197.26	4.79E-06	1.49E-05	2.33E-06	0.00E+00	2.20E-05	7.46E-07	2.40E-06	3.68E-07	3.51E-06	3.28E-08	1.83E-07	2.16E-08	2.38E-07
896	577262.72	4194191.32	4.66E-06	1.45E-05	2.27E-06	0.00E+00	2.14E-05	7.26E-07	2.34E-06	3.58E-07	3.42E-06	3.19E-08	1.78E-07	2.10E-08	2.31E-07
897	577253.55	4194189.4	4.30E-06	1.34E-05	2.09E-06	0.00E+00	1.97E-05	6.69E-07	2.15E-06	3.30E-07	3.15E-06	2.94E-08	1.64E-07	1.94E-08	2.13E-07
898	577244.39	4194187.47	3.97E-06	1.23E-05	1.93E-06	0.00E+00	1.82E-05	6.19E-07	1.99E-06	3.05E-07	2.91E-06	2.72E-08	1.52E-07	1.79E-08	1.97E-07
899	577264.77	4194181.54	3.88E-06	1.21E-05	1.89E-06	0.00E+00	1.78E-05	6.05E-07	1.95E-06	2.98E-07	2.85E-06	2.66E-08	1.49E-07	1.75E-08	1.93E-07
900	577255.61	4194179.61	3.62E-06	1.12E-05	1.76E-06	0.00E+00	1.66E-05	5.63E-07	1.81E-06	2.78E-07	2.65E-06	2.47E-08	1.38E-07	1.63E-08	1.79E-07
901	577246.44	4194177.69	3.36E-06	1.04E-05	1.63E-06	0.00E+00	1.54E-05	5.23E-07	1.68E-06	2.58E-07	2.46E-06	2.29E-08	1.28E-07	1.51E-08	1.66E-07
902	577270.94	4194152.18	2.40E-06	7.46E-06	1.17E-06	0.00E+00	1.10E-05	3.74E-07	1.20E-06	1.85E-07	1.76E-06	1.64E-08	9.19E-08	1.08E-08	1.19E-07
903	577261.78	4194150.25	2.27E-06	7.06E-06	1.11E-06	0.00E+00	1.04E-05	3.54E-07	1.14E-06	1.75E-07	1.67E-06	1.55E-08	8.69E-08	1.02E-08	1.13E-07
904	577252.61	4194148.33	2.14E-06	6.66E-06	1.04E-06	0.00E+00	9.85E-06	3.34E-07	1.07E-06	1.65E-07	1.57E-06	1.47E-08	8.20E-08	9.66E-09	1.06E-07
905	577273	4194142.39	2.09E-06	6.49E-06	1.02E-06	0.00E+00	9.59E-06	3.25E-07	1.05E-06	1.60E-07	1.53E-06	1.43E-08	7.98E-08	9.41E-09	1.04E-07
906	577263.83	4194140.47	1.98E-06	6.16E-06	9.65E-07	0.00E+00	9.10E-06	3.09E-07	9.93E-07	1.52E-07	1.45E-06	1.36E-08	7.58E-08	8.94E-09	9.83E-08
907	577254.67	4194138.54	1.87E-06	5.83E-06	9.13E-07	0.00E+00	8.61E-06	2.92E-07	9.39E-07	1.44E-07	1.38E-06	1.28E-08	7.17E-08	8.45E-09	9.30E-08
908	577275.05	4194132.61	1.83E-06	5.68E-06	8.90E-07	0.00E+00	8.40E-06	2.85E-07	9.16E-07	1.40E-07	1.34E-06	1.25E-08	6.99E-08	8.24E-09	9.07E-08
909	577265.89	4194130.68	1.74E-06	5.41E-06	8.47E-07	0.00E+00	8.00E-06	2.71E-07	8.72E-07	1.34E-07	1.28E-06	1.19E-08	6.66E-08	7.85E-09	8.63E-08

910	577256.72	4194128.76	1.65E-06	5.13E-06	8.04E-07	0.00E+00	7.59E-06	2.57E-07	8.28E-07	1.27E-07	1.21E-06	1.13E-08	6.32E-08	7.45E-09	8.19E-08
911	577267.94	4194120.89	1.54E-06	4.78E-06	7.49E-07	0.00E+00	7.07E-06	2.40E-07	7.71E-07	1.18E-07	1.13E-06	1.05E-08	5.88E-08	6.93E-09	7.63E-08
912	577258.78	4194118.97	1.47E-06	4.55E-06	7.13E-07	0.00E+00	6.73E-06	2.28E-07	7.34E-07	1.13E-07	1.08E-06	1.00E-08	5.61E-08	6.61E-09	7.27E-08
913	577270	4194111.11	1.37E-06	4.25E-06	6.66E-07	0.00E+00	6.28E-06	2.13E-07	6.85E-07	1.05E-07	1.00E-06	9.35E-09	5.23E-08	6.17E-09	6.78E-08
914	577260.83	4194109.18	1.31E-06	4.06E-06	6.36E-07	0.00E+00	6.01E-06	2.04E-07	6.55E-07	1.00E-07	9.59E-07	8.94E-09	5.00E-08	5.90E-09	6.48E-08
915	577272.05	4194101.32	1.22E-06	3.81E-06	5.96E-07	0.00E+00	5.63E-06	1.91E-07	6.14E-07	9.41E-08	8.99E-07	8.38E-09	4.69E-08	5.52E-09	6.08E-08
916	577262.89	4194099.4	1.17E-06	3.65E-06	5.72E-07	0.00E+00	5.40E-06	1.83E-07	5.89E-07	9.03E-08	8.62E-07	8.03E-09	4.49E-08	5.30E-09	5.83E-08
917	577274.11	4194091.54	1.10E-06	3.43E-06	5.37E-07	0.00E+00	5.07E-06	1.72E-07	5.53E-07	8.48E-08	8.10E-07	7.55E-09	4.22E-08	4.98E-09	5.47E-08
918	577264.94	4194089.61	1.06E-06	3.30E-06	5.16E-07	0.00E+00	4.87E-06	1.65E-07	5.32E-07	8.15E-08	7.79E-07	7.26E-09	4.06E-08	4.78E-09	5.26E-08
919	577276.16	4194081.75	9.98E-07	3.10E-06	4.86E-07	0.00E+00	4.59E-06	1.56E-07	5.00E-07	7.67E-08	7.32E-07	6.83E-09	3.82E-08	4.50E-09	4.95E-08
920	577267	4194079.82	9.62E-07	2.99E-06	4.68E-07	0.00E+00	4.42E-06	1.50E-07	4.82E-07	7.39E-08	7.06E-07	6.58E-09	3.68E-08	4.34E-09	4.77E-08
921	577278.22	4194071.96	9.06E-07	2.82E-06	4.41E-07	0.00E+00	4.16E-06	1.41E-07	4.54E-07	6.97E-08	6.65E-07	6.20E-09	3.47E-08	4.09E-09	4.50E-08
922	577269.06	4194070.04	8.76E-07	2.72E-06	4.26E-07	0.00E+00	4.02E-06	1.36E-07	4.39E-07	6.73E-08	6.43E-07	5.99E-09	3.35E-08	3.95E-09	4.34E-08
923	577280.28	4194062.18	8.26E-07	2.57E-06	4.02E-07	0.00E+00	3.80E-06	1.29E-07	4.14E-07	6.35E-08	6.06E-07	5.65E-09	3.16E-08	3.73E-09	4.10E-08
924	577271.11	4194060.25	8.00E-07	2.49E-06	3.89E-07	0.00E+00	3.67E-06	1.25E-07	4.01E-07	6.15E-08	5.87E-07	5.47E-09	3.06E-08	3.61E-09	3.97E-08
925	577282.33	4194052.39	7.56E-07	2.35E-06	3.68E-07	0.00E+00	3.47E-06	1.18E-07	3.79E-07	5.81E-08	5.54E-07	5.17E-09	2.89E-08	3.41E-09	3.75E-08
926	577273.17	4194050.46	7.33E-07	2.28E-06	3.57E-07	0.00E+00	3.37E-06	1.14E-07	3.67E-07	5.63E-08	5.38E-07	5.01E-09	2.80E-08	3.30E-09	3.63E-08
927	577284.39	4194042.6	6.93E-07	2.15E-06	3.37E-07	0.00E+00	3.18E-06	1.08E-07	3.47E-07	5.33E-08	5.09E-07	4.74E-09	2.65E-08	3.13E-09	3.44E-08
928	577275.22	4194040.68	6.73E-07	2.09E-06	3.28E-07	0.00E+00	3.09E-06	1.05E-07	3.37E-07	5.17E-08	4.94E-07	4.60E-09	2.57E-08	3.04E-09	3.34E-08
929	577286.44	4194032.82	6.37E-07	1.98E-06	3.10E-07	0.00E+00	2.93E-06	9.93E-08	3.19E-07	4.90E-08	4.68E-07	4.36E-09	2.44E-08	2.87E-09	3.16E-08
930	577277.28	4194030.89	6.20E-07	1.93E-06	3.02E-07	0.00E+00	2.85E-06	9.66E-08	3.11E-07	4.76E-08	4.55E-07	4.24E-09	2.37E-08	2.79E-09	3.07E-08
931	577288.5	4194023.03	5.87E-07	1.83E-06	2.86E-07	0.00E+00	2.70E-06	9.15E-08	2.94E-07	4.52E-08	4.31E-07	4.02E-09	2.25E-08	2.65E-09	2.91E-08
932	577279.33	4194021.1	5.72E-07	1.78E-06	2.79E-07	0.00E+00	2.63E-06	8.92E-08	2.87E-07	4.40E-08	4.20E-07	3.91E-09	2.19E-08	2.58E-09	2.84E-08
933	577290.55	4194013.24	5.43E-07	1.69E-06	2.65E-07	0.00E+00	2.50E-06	8.47E-08	2.72E-07	4.18E-08	3.99E-07	3.72E-09	2.08E-08	2.45E-09	2.70E-08
934	577281.39	4194011.32	5.30E-07	1.65E-06	2.58E-07	0.00E+00	2.44E-06	8.26E-08	2.66E-07	4.07E-08	3.89E-07	3.63E-09	2.03E-08	2.39E-09	2.63E-08
935	577292.61	4194003.46	5.04E-07	1.57E-06	2.45E-07	0.00E+00	2.32E-06	7.85E-08	2.53E-07	3.87E-08	3.70E-07	3.45E-09	1.93E-08	2.27E-09	2.50E-08
936	577283.44	4194001.53	4.92E-07	1.53E-06	2.40E-07	0.00E+00	2.26E-06	7.67E-08	2.47E-07	3.79E-08	3.61E-07	3.37E-09	1.88E-08	2.22E-09	2.44E-08
937	577294.66	4193993.67	4.69E-07	1.46E-06	2.28E-07	0.00E+00	2.15E-06	7.30E-08	2.35E-07	3.60E-08	3.44E-07	3.20E-09	1.79E-08	2.11E-09	2.32E-08
938	577285.5	4193991.75	4.58E-07	1.42E-06	2.23E-07	0.00E+00	2.11E-06	7.14E-08	2.30E-07	3.52E-08	3.36E-07	3.14E-09	1.75E-08	2.07E-09	2.27E-08
939	577296.72	4193983.88	4.36E-07	1.36E-06	2.12E-07	0.00E+00	2.01E-06	6.80E-08	2.19E-07	3.35E-08	3.20E-07	2.98E-09	1.67E-08	1.97E-09	2.17E-08
940	577287.55	4193981.96	4.28E-07	1.33E-06	2.08E-07	0.00E+00	1.96E-06	6.66E-08	2.14E-07	3.29E-08	3.14E-07	2.92E-09	1.64E-08	1.93E-09	2.12E-08
941	577298.78	4193974.1	4.07E-07	1.27E-06	1.98E-07	0.00E+00	1.87E-06	6.35E-08	2.04E-07	3.13E-08	2.99E-07	2.79E-09	1.56E-08	1.84E-09	2.02E-08
942	577289.61	4193972.17	3.99E-07	1.24E-06	1.94E-07	0.00E+00	1.84E-06	6.22E-08	2.00E-07	3.07E-08	2.93E-07	2.73E-09	1.53E-08	1.80E-09	1.98E-08
943	577300.83	4193964.31	3.81E-07	1.18E-06	1.86E-07	0.00E+00	1.75E-06	5.94E-08	1.91E-07	2.93E-08	2.80E-07	2.61E-09	1.46E-08	1.72E-09	1.89E-08
944	577291.67	4193962.39	3.74E-07	1.16E-06	1.82E-07	0.00E+00	1.72E-06	5.83E-08	1.87E-07	2.87E-08	2.74E-07	2.56E-09	1.43E-08	1.69E-09	1.85E-08
945	577302.89	4193954.52	3.57E-07	1.11E-06	1.74E-07	0.00E+00	1.64E-06	5.57E-08	1.79E-07	2.75E-08	2.62E-07	2.44E-09	1.37E-08	1.61E-09	1.77E-08
946	577293.72	4193952.6	3.51E-07	1.09E-06	1.71E-07	0.00E+00	1.61E-06	5.47E-08	1.76E-07	2.70E-08	2.57E-07	2.40E-09	1.34E-08	1.58E-09	1.74E-08
947	577304.94	4193944.74	3.35E-07	1.04E-06	1.63E-07	0.00E+00	1.54E-06	5.23E-08	1.68E-07	2.58E-08	2.46E-07	2.29E-09	1.28E-08	1.51E-09	1.66E-08
948	577295.78	4193942.81	3.30E-07	1.02E-06	1.60E-07	0.00E+00	1.51E-06	5.14E-08	1.65E-07	2.53E-08	2.42E-07	2.25E-09	1.26E-08	1.49E-09	1.64E-08
949	577222.06	4194250.1	6.79E-06	2.11E-05	3.31E-06	0.00E+00	3.12E-05	1.06E-06	3.40E-06	5.22E-07	4.99E-06	4.65E-08	2.60E-07	3.06E-08	3.37E-07
950	577213.79	4194244.5	5.66E-06	1.76E-05	2.76E-06	0.00E+00	2.60E-05	8.82E-07	2.84E-06	4.35E-07	4.16E-06	3.87E-08	2.17E-07	2.55E-08	2.81E-07
951	577221.04	4194238.62	6.38E-06	1.98E-05	3.10E-06	0.00E+00	2.93E-05	9.93E-07	3.20E-06	4.90E-07	4.68E-06	4.36E-08	2.44E-07	2.87E-08	3.16E-07
952	577205.5	4194238.9	4.80E-06	1.49E-05	2.33E-06	0.00E+00	2.20E-05	7.47E-07	2.40E-06	3.69E-07	3.52E-06	3.28E-08	1.83E-07	2.16E-08	2.38E-07
953	577212.49	4194233.24	5.35E-06	1.66E-05	2.60E-06	0.00E+00	2.46E-05	8.33E-07	2.68E-06	4.11E-07	3.93E-06	3.66E-08	2.05E-07	2.41E-08	2.65E-07
954	577220.15	4194228.05	5.82E-06	1.81E-05	2.83E-06	0.00E+00	2.68E-05	9.07E-07	2.92E-06	4.47E-07	4.27E-06	3.98E-08	2.23E-07	2.63E-08	2.89E-07
955	577197.22	4194233.3	4.10E-06	1.27E-05	2.00E-06	0.00E+00	1.88E-05	6.39E-07	2.05E-06	3.15E-07	3.01E-06	2.80E-08	1.57E-07	1.85E-08	2.03E-07
956	577204.25	4194227.6	4.54E-06	1.41E-05	2.21E-06	0.00E+00	2.09E-05	7.08E-07	2.28E-06	3.49E-07	3.33E-06	3.11E-08	1.74E-07	2.05E-08	2.25E-07
957	577211.65	4194221.61	4.94E-06	1.54E-05	2.41E-06	0.00E+00	2.27E-05	7.70E-07	2.48E-06	3.80E-07	3.63E-06	3.38E-08	1.89E-07	2.23E-08	2.45E-07
958	577220.2	4194218.44	5.44E-06	1.69E-05	2.65E-06	0.00E+00	2.50E-05	8.48E-07	2.73E-06	4.18E-07	3.99E-06	3.72E-08	2.08E-07	2.45E-08	2.70E-07
959	577229.21	4194217.64	6.14E-06	1.91E-05	2.99E-06	0.00E+00	2.82E-05	9.56E-07	3.07E-06	4.72E-07	4.50E-06	4.20E-08	2.35E-07	2.77E-08	3.04E-07
960	577188.93	4194227.71	3.54E-06	1.10E-05	1.72E-06	0.00E+00	1.63E-05	5.52E-07	1.78E-06	2.72E-07	2.60E-06	2.42E-08	1.36E-07	1.60E-08	1.76E-07
961	577195.99	4194221.98	3.90E-06	1.21E-05	1.90E-06	0.00E+00	1.79E-05	6.07E-07	1.95E-06	2.99E-07	2.86E-06	2.66E-08	1.49E-07	1.76E-08	1.93E-07
962	577203.05	4194216.26	4.21E-06	1.31E-05	2.05E-06	0.00E+00	1.94E-05	6.56E-07	2.11E-06	3.24E-07	3.09E-06	2.88E-08	1.61E-07	1.90E-08	2.09E-07
963	577210.11	4194210.54	4.43E-06	1.38E-05	2.16E-06	0.00E+00	2.04E-05	6.90E-07	2.22E-06	3.41E-07	3.25E-06	3.03E-08	1.69E-07	2.00E-08	2.20E-07
964	577219.32	4194208.92	4.89E-06	1.52E-05	2.38E-06	0.00E+00	2.25E-05	7.62E-07	2.45E-06	3.76E-07	3.59E-06	3.34E-08	1.87E-07	2.21E-08	2.43E-07
965	577228.37	4194208.11	5.41E-06	1.68E-05	2.63E-06	0.00E+00	2.49E-05	8.43E-07	2.71E-06	4.16E-07	3.97E-06	3.70E-08	2.07E-07	2.44E-08	2.68E-07
966	577180.64	4194222.11	3.07E-06	9.56E-06	1.50E-06	0.00E+00	1.41E-05	4.79E-07	1.54E-06	2.36E-07	2.26E-06	2.10E-08	1.18E-07	1.39E-08	1.53E-07
967	577187.72	4194216.37	3.36E-06	1.04E-05	1.63E-06	0.00E+00	1.54E-05	5.23E-07	1.68E-06	2.58E-07	2.46E-06	2.30E-08	1.28E-07	1.51E-08	1.67E-07
968	577195.17	4194210.34	3.60E-06	1.12E-05	1.75E-06	0.00E+00	1.65E-05	5.61E-07	1.80E-06	2.77E-07	2.64E-06	2.46E-08	1.38E-07	1.62E-08	1.79E-07
969	577202.25	4194204.6	3.78E-06	1.17E-05	1.84E-06	0.00E+00	1.73E-05	5.88E-07	1.89E-06	2.90E-07	2.77E-06	2.58E-08	1.44E-07	1.70E-08	1.87E-07
970	577210.33	4194200.12	3.94E-06	1.22E-05	1.92E-06	0.00E+00	1.81E-05	6.14E-07	1.97E-06	3.03E-07	2.89E-06	2.69E-08	1.51E-07	1.78E-08	1.95E-07
971	577219.41	4194199.31	4.25E-06	1.32E-05	2.07E-06	0.00E+00	1.95E-05	6.62E-07	2.13E-06	3.26E-07	3.12E-06	2.90E-08	1.62E-07	1.91E-08	2.11E-07
972	577228.48	4194198.5	4.51E-06	1.40E-05	2.19E-06	0.00E+00	2.07E-05	7.02E-07	2.26E-06	3.46E-07	3.31E-06	3.08E-08	1.72E-07	2.03E-08	2.23E-07
973	577172.35	4194216.51	2.67E-06	8.29E-06	1.30E-06	0.00E+00	1.22E-05	4.15E-07	1.34E-06	2.05E-07	1.96E-06	1.82E-08	1.02E-07	1.20E-08	1.32E-07
974	577179.45	4194210.77	2.89E-06	8.99E-06	1.41E-06	0.00E+00	1.33E-05	4.51E-07	1.45E-06	2.22E-07	2.12E-06	1.98E-08	1.11E-07	1.30E-08	1.43E-07
975	577186.54	4194205.02	3.08E-06	9.57E-06	1.50E-06	0.00E+00	1.41E-05	4.80E-07	1.54E-06	2.37E-07	2.26E-06	2.11E-08	1.18E-07	1.39E-08	1.53E-07
976	577193.63	4194199.27	3.22E-06	1.00E-05	1.57E-06	0.00E+00	1.48E-05	5.01E-07	1.61E-06	2.47E-07	2.36E-06	2.20E-08	1.23E-07	1.45E-08	1.60E-07
977	577200.72	4194193.52	3.23E-06	1.00E-05	1.57E-06	0.00E+00	1.48E-05	5.03E-07	1.62E-06	2.48E-07	2.37E-06	2.21E-08	1.24E-07	1.46E-08	1.60E-07
978	577209.45	4194190.59	3.34E-06	1.04E-05	1.63E-06	0.00E+00	1.54E-05	5.21E-07	1.68E-06	2.57E-07	2.45E-06	2.29E-08	1.28E-07	1.51E-08	1.66E-07
979	577218.55	4194189.78	3.54E-06	1.10E-05	1.72E-06	0.00E+00	1.63E-05	5.52E-07	1.78E-06	2.72E-07	2.60E-06	2.42E-08	1.36E-07	1.60E-08	1.76E-07
980	577227.64	4194188.97	3.72E-06	1.16E-05	1.81E-06	0.00E+00	1.71E-05	5.79E-07	1.86E-06	2.86E-07	2.73E-06	2.54E-08	1.42E-07	1.68E-08	1.84E-07
981	577164.07	4194210.92	2.31E-06	7.18E-06	1.12E-06	0.00E+00	1.06E-05	3.60E-07	1.16E-06	1.78E-07	1.70E-06	1.58E-08	8.84E-08	1.04E-08	1.15E-07
982	577171.17	4194205.16	2.50E-06	7.76E-06	1.22E-06	0.00E+00	1.15E-05	3.89E-07	1.25E-06	1.92E-07	1.83E-06	1.71E-08	9.55E-08	1.13E-08	1.24E-07
983	577178.27	4194199.41	2.65E-06	8.25E-06	1.29E-06	0.00E+00	1.22E-05	4.13E-07	1.33E-06	2.04E-07	1.95E-06	1.81E-08	1.02E-07	1.20E-08	1.32E-07
984	577185.37	4194193.65	2.75E-06	8.54E-06	1.34E-06	0.00E+00	1.26E-05	4.28E-07	1.38E-06	2.11E-07	2.02E-06	1.88E-08	1.05E-07	1.24E-08	1.36E-07
985	577192.48	4194187.9	2.76E-06	8.57E-06	1.34E-06	0.00E+00	1.27E-05	4.29E-07	1.38E-06	2.12E-07	2.02E-06	1.88E-08	1.05E-07	1.24E-08	1.37E-07
986	577199.58	4194182.14	2.71E-06	8.42E-06	1.32E-06	0.00E+00	1.24E-05	4.22E-07	1.36E-06	2.08E-07	1.99E-06	1.85E-08	1.04E-07	1.22E-08	1.34E-07
987	577208.58	4194181.07	2.85E-06	8.87E-06	1.39E-06	0.00E+00	1.31E-05	4.44E-07	1.43E-06	2.19E-07	2.09E-06	1.95E-08	1.09E-07	1.29E-08	1.41E-07
988	577217.69	4194180.25	2.99E-06	9.31E-06	1.46E-06	0.00E+00	1.38E-05	4.67E-07	1.50E-06	2.30E-07	2.20E-06	2.05E-08	1.15E-07	1.35E-08	1.49E-07
989	577226.79	4194179.44	3.12E-06	9.70E-06	1.52E-06	0.00E+00	1.43E-05	4.86E-07	1.56E-06	2.40E-07	2.29E-06	2.13E-08	1.19E-07	1.41E-08	1.55E-07
990	577235.9	4194178.63	3.24E-06	1.01E-05	1.58E-06	0.00E+00	1.49E-05	5.04E-07	1.62E-06	2.49E-07	2.38E-06	2.21E-08	1.24E-07	1.46E-08	1.61E-07
991	577155.78	4194205.32	2.02E-06	6.27E-06	9.82E-07	0.00E+00	9.27E-06	3.14E-07	1.01E-06	1.55E-07	1.48E-06	1.38E-08	7.72E-08	9.10E-09	1.00E-07
992	577162.89	4194199.56	2.16E-06	6.73E-06	1.05E-06	0.00E+00	9.94E-06	3.37E-07	1.08E-06	1.66E-07	1.59E-06	1.48E-08	8.28E-08	9.76E-09	1.07E-07

993	577170	4194193.8	2.29E-06	7.12E-06	1.11E-06	0.00E+00	1.05E-05	3.57E-07	1.15E-06	1.76E-07	1.68E-06	1.57E-08	8.76E-08	1.03E-08	1.14E-07
994	577177.11	4194188.04	2.36E-06	7.32E-06	1.15E-06	0.00E+00	1.08E-05	3.67E-07	1.18E-06	1.81E-07	1.73E-06	1.61E-08	9.01E-08	1.06E-08	1.17E-07
995	577184.22	4194182.27	2.37E-06	7.38E-06	1.16E-06	0.00E+00	1.09E-05	3.70E-07	1.19E-06	1.82E-07	1.74E-06	1.62E-08	9.08E-08	1.07E-08	1.18E-07
996	577191.33	4194176.51	2.34E-06	7.28E-06	1.14E-06	0.00E+00	1.08E-05	3.65E-07	1.17E-06	1.80E-07	1.72E-06	1.60E-08	8.96E-08	1.06E-08	1.16E-07
997	577199.56	4194172.27	2.34E-06	7.29E-06	1.14E-06	0.00E+00	1.08E-05	3.65E-07	1.17E-06	1.80E-07	1.72E-06	1.60E-08	8.97E-08	1.06E-08	1.16E-07
998	577208.67	4194171.46	2.46E-06	7.64E-06	1.20E-06	0.00E+00	1.13E-05	3.83E-07	1.23E-06	1.89E-07	1.80E-06	1.68E-08	9.41E-08	1.11E-08	1.22E-07
999	577217.79	4194170.64	2.56E-06	7.97E-06	1.25E-06	0.00E+00	1.18E-05	4.00E-07	1.29E-06	1.97E-07	1.88E-06	1.75E-08	9.81E-08	1.16E-08	1.27E-07
1000	577226.91	4194169.83	2.66E-06	8.27E-06	1.30E-06	0.00E+00	1.22E-05	4.15E-07	1.33E-06	2.05E-07	1.95E-06	1.82E-08	1.02E-07	1.20E-08	1.32E-07
1001	577147.49	4194199.73	1.77E-06	5.50E-06	8.61E-07	0.00E+00	8.13E-06	2.76E-07	8.87E-07	1.36E-07	1.30E-06	1.21E-08	6.77E-08	7.98E-09	8.78E-08
1002	577154.61	4194193.96	1.89E-06	5.87E-06	9.20E-07	0.00E+00	8.68E-06	2.94E-07	9.47E-07	1.45E-07	1.39E-06	1.29E-08	7.23E-08	8.52E-09	9.37E-08
1003	577161.73	4194188.19	1.98E-06	6.16E-06	9.65E-07	0.00E+00	9.11E-06	3.09E-07	9.93E-07	1.52E-07	1.45E-06	1.36E-08	7.58E-08	8.94E-09	9.83E-08
1004	577168.84	4194182.43	2.04E-06	6.34E-06	9.92E-07	0.00E+00	9.37E-06	3.18E-07	1.02E-06	1.57E-07	1.50E-06	1.39E-08	7.80E-08	9.19E-09	1.01E-07
1005	577175.96	4194176.66	2.06E-06	6.41E-06	1.00E-06	0.00E+00	9.48E-06	3.21E-07	1.03E-06	1.59E-07	1.51E-06	1.41E-08	7.89E-08	9.30E-09	1.02E-07
1006	577183.08	4194170.89	2.05E-06	6.37E-06	9.97E-07	0.00E+00	9.41E-06	3.19E-07	1.03E-06	1.57E-07	1.50E-06	1.40E-08	7.84E-08	9.24E-09	1.02E-07
1007	577190.2	4194165.12	2.00E-06	6.21E-06	9.73E-07	0.00E+00	9.18E-06	3.11E-07	1.00E-06	1.54E-07	1.47E-06	1.37E-08	7.64E-08	9.01E-09	9.91E-08
1008	577139.2	4194194.13	1.56E-06	4.84E-06	7.58E-07	0.00E+00	7.15E-06	2.43E-07	7.80E-07	1.20E-07	1.14E-06	1.06E-08	5.96E-08	7.02E-09	7.72E-08
1009	577146.32	4194188.36	1.66E-06	5.15E-06	8.06E-07	0.00E+00	7.61E-06	2.58E-07	8.30E-07	1.27E-07	1.22E-06	1.13E-08	6.34E-08	7.47E-09	8.22E-08
1010	577153.45	4194182.59	1.73E-06	5.38E-06	8.42E-07	0.00E+00	7.95E-06	2.70E-07	8.67E-07	1.33E-07	1.27E-06	1.18E-08	6.62E-08	7.80E-09	8.58E-08
1011	577160.57	4194176.82	1.78E-06	5.53E-06	8.66E-07	0.00E+00	8.17E-06	2.77E-07	8.91E-07	1.37E-07	1.30E-06	1.22E-08	6.80E-08	8.02E-09	8.82E-08
1012	577167.69	4194171.05	1.80E-06	5.61E-06	8.78E-07	0.00E+00	8.29E-06	2.81E-07	9.04E-07	1.39E-07	1.32E-06	1.23E-08	6.90E-08	8.14E-09	8.95E-08
1013	577174.82	4194165.27	1.80E-06	5.60E-06	8.78E-07	0.00E+00	8.28E-06	2.81E-07	9.03E-07	1.39E-07	1.32E-06	1.23E-08	6.90E-08	8.13E-09	8.94E-08
1014	577130.91	4194188.54	1.38E-06	4.28E-06	6.70E-07	0.00E+00	6.32E-06	2.14E-07	6.90E-07	1.06E-07	1.01E-06	9.41E-09	5.27E-08	6.21E-09	6.83E-08
1015	577137.99	4194182.81	1.46E-06	4.53E-06	7.09E-07	0.00E+00	6.69E-06	2.27E-07	7.30E-07	1.12E-07	1.07E-06	9.96E-09	5.57E-08	6.57E-09	7.23E-08
1016	577145.07	4194177.07	1.52E-06	4.72E-06	7.39E-07	0.00E+00	6.98E-06	2.37E-07	7.61E-07	1.17E-07	1.11E-06	1.04E-08	5.81E-08	6.85E-09	7.53E-08
1017	577152.15	4194171.33	1.56E-06	4.86E-06	7.61E-07	0.00E+00	7.18E-06	2.44E-07	7.83E-07	1.20E-07	1.15E-06	1.07E-08	5.98E-08	7.05E-09	7.76E-08
1018	577159.23	4194165.6	1.59E-06	4.94E-06	7.74E-07	0.00E+00	7.30E-06	2.48E-07	7.96E-07	1.22E-07	1.17E-06	1.09E-08	6.08E-08	7.17E-09	7.88E-08
1019	577166.3	4194159.86	1.60E-06	4.96E-06	7.77E-07	0.00E+00	7.33E-06	2.49E-07	8.00E-07	1.23E-07	1.17E-06	1.09E-08	6.10E-08	7.20E-09	7.91E-08
1020	577216.46	4194141.95	1.71E-06	5.32E-06	8.33E-07	0.00E+00	7.86E-06	2.66E-07	8.57E-07	1.31E-07	1.26E-06	1.17E-08	6.54E-08	7.71E-09	8.48E-08
1021	577225.53	4194141.14	1.76E-06	5.46E-06	8.55E-07	0.00E+00	8.07E-06	2.74E-07	8.80E-07	1.35E-07	1.29E-06	1.20E-08	6.72E-08	7.92E-09	8.71E-08
1022	577234.61	4194140.33	1.80E-06	5.59E-06	8.75E-07	0.00E+00	8.26E-06	2.80E-07	9.01E-07	1.38E-07	1.32E-06	1.23E-08	6.88E-08	8.11E-09	8.92E-08
1023	577243.68	4194139.52	1.83E-06	5.70E-06	8.93E-07	0.00E+00	8.43E-06	2.86E-07	9.19E-07	1.41E-07	1.35E-06	1.25E-08	7.02E-08	8.27E-09	9.10E-08
1024	577122.62	4194182.95	1.22E-06	3.80E-06	5.95E-07	0.00E+00	5.61E-06	1.90E-07	6.12E-07	9.39E-08	8.96E-07	8.35E-09	4.67E-08	5.51E-09	6.06E-08
1025	577129.71	4194177.2	1.29E-06	4.00E-06	6.27E-07	0.00E+00	5.92E-06	2.01E-07	6.45E-07	9.90E-08	9.45E-07	8.81E-09	4.93E-08	5.81E-09	6.39E-08
1026	577136.79	4194171.46	1.34E-06	4.17E-06	6.54E-07	0.00E+00	6.17E-06	2.09E-07	6.73E-07	1.03E-07	9.85E-07	9.18E-09	5.14E-08	6.06E-09	6.66E-08
1027	577143.88	4194165.72	1.38E-06	4.30E-06	6.74E-07	0.00E+00	6.36E-06	2.16E-07	6.93E-07	1.06E-07	1.02E-06	9.46E-09	5.29E-08	6.24E-09	6.86E-08
1028	577150.97	4194159.98	1.41E-06	4.38E-06	6.86E-07	0.00E+00	6.47E-06	2.20E-07	7.06E-07	1.08E-07	1.03E-06	9.64E-09	5.39E-08	6.35E-09	6.99E-08
1029	577179.31	4194137.01	1.36E-06	4.23E-06	6.62E-07	0.00E+00	6.25E-06	2.12E-07	6.82E-07	1.05E-07	9.98E-07	9.31E-09	5.21E-08	6.14E-09	6.75E-08
1030	577188.35	4194134.86	1.39E-06	4.31E-06	6.76E-07	0.00E+00	6.38E-06	2.16E-07	6.96E-07	1.07E-07	1.02E-06	9.49E-09	5.31E-08	6.26E-09	6.88E-08
1031	577197.43	4194134.05	1.43E-06	4.45E-06	6.97E-07	0.00E+00	6.58E-06	2.23E-07	7.18E-07	1.10E-07	1.05E-06	9.79E-09	5.48E-08	6.46E-09	7.10E-08
1032	577206.52	4194133.24	1.47E-06	4.58E-06	7.17E-07	0.00E+00	6.77E-06	2.30E-07	7.38E-07	1.13E-07	1.08E-06	1.01E-08	5.64E-08	6.64E-09	7.31E-08
1033	577215.6	4194132.42	1.51E-06	4.70E-06	7.36E-07	0.00E+00	6.95E-06	2.36E-07	7.58E-07	1.16E-07	1.11E-06	1.03E-08	5.79E-08	6.82E-09	7.50E-08
1034	577224.69	4194131.61	1.55E-06	4.82E-06	7.54E-07	0.00E+00	7.12E-06	2.41E-07	7.76E-07	1.19E-07	1.14E-06	1.06E-08	5.93E-08	6.99E-09	7.68E-08
1035	577233.77	4194130.8	1.58E-06	4.92E-06	7.70E-07	0.00E+00	7.27E-06	2.46E-07	7.93E-07	1.22E-07	1.16E-06	1.08E-08	6.05E-08	7.13E-09	7.84E-08
1036	577242.86	4194129.99	1.61E-06	5.01E-06	7.84E-07	0.00E+00	7.40E-06	2.51E-07	8.07E-07	1.24E-07	1.18E-06	1.10E-08	6.16E-08	7.27E-09	7.99E-08
1037	577114.33	4194177.35	1.09E-06	3.38E-06	5.30E-07	0.00E+00	5.00E-06	1.70E-07	5.45E-07	8.36E-08	7.98E-07	7.44E-09	4.16E-08	4.91E-09	5.40E-08
1038	577121.43	4194171.6	1.15E-06	3.56E-06	5.58E-07	0.00E+00	5.26E-06	1.78E-07	5.74E-07	8.80E-08	8.41E-07	7.83E-09	4.38E-08	5.17E-09	5.68E-08
1039	577128.52	4194165.86	1.19E-06	3.71E-06	5.82E-07	0.00E+00	5.49E-06	1.86E-07	5.99E-07	9.18E-08	8.77E-07	8.17E-09	4.57E-08	5.39E-09	5.93E-08
1040	577135.61	4194160.11	1.23E-06	3.83E-06	5.99E-07	0.00E+00	5.66E-06	1.92E-07	6.17E-07	9.47E-08	9.04E-07	8.42E-09	4.71E-08	5.55E-09	6.11E-08
1041	577142.7	4194154.36	1.26E-06	3.90E-06	6.11E-07	0.00E+00	5.77E-06	1.96E-07	6.29E-07	9.65E-08	9.22E-07	8.59E-09	4.80E-08	5.66E-09	6.23E-08
1042	577171.07	4194131.37	1.23E-06	3.82E-06	5.99E-07	0.00E+00	5.65E-06	1.92E-07	6.16E-07	9.45E-08	9.03E-07	8.41E-09	4.71E-08	5.55E-09	6.10E-08
1043	577178.86	4194126.1	1.21E-06	3.76E-06	5.89E-07	0.00E+00	5.56E-06	1.88E-07	6.06E-07	9.30E-08	8.88E-07	8.27E-09	4.63E-08	5.45E-09	6.00E-08
1044	577187.95	4194125.29	1.25E-06	3.88E-06	6.07E-07	0.00E+00	5.73E-06	1.94E-07	6.25E-07	9.59E-08	9.15E-07	8.53E-09	4.77E-08	5.63E-09	6.19E-08
1045	577197.04	4194124.48	1.28E-06	3.99E-06	6.24E-07	0.00E+00	5.89E-06	2.00E-07	6.43E-07	9.86E-08	9.41E-07	8.77E-09	4.91E-08	5.78E-09	6.36E-08
1046	577206.13	4194123.67	1.32E-06	4.09E-06	6.40E-07	0.00E+00	6.04E-06	2.05E-07	6.59E-07	1.01E-07	9.65E-07	8.99E-09	5.03E-08	5.93E-09	6.52E-08
1047	577215.23	4194122.86	1.35E-06	4.18E-06	6.55E-07	0.00E+00	6.18E-06	2.10E-07	6.75E-07	1.03E-07	9.88E-07	9.21E-09	5.15E-08	6.07E-09	6.68E-08
1048	577224.32	4194122.04	1.38E-06	4.27E-06	6.69E-07	0.00E+00	6.32E-06	2.14E-07	6.89E-07	1.06E-07	1.01E-06	9.40E-09	5.26E-08	6.20E-09	6.82E-08
1049	577233.41	4194121.23	1.40E-06	4.36E-06	6.82E-07	0.00E+00	6.44E-06	2.18E-07	7.02E-07	1.08E-07	1.03E-06	9.58E-09	5.36E-08	6.32E-09	6.95E-08
1050	577242.51	4194120.42	1.43E-06	4.43E-06	6.94E-07	0.00E+00	6.55E-06	2.22E-07	7.15E-07	1.10E-07	1.05E-06	9.75E-09	5.45E-08	6.43E-09	7.07E-08
1051	577106.05	4194171.76	9.74E-07	3.03E-06	4.74E-07	0.00E+00	4.48E-06	1.52E-07	4.88E-07	7.49E-08	7.15E-07	6.66E-09	3.73E-08	4.39E-09	4.83E-08
1052	577113.14	4194166	1.02E-06	3.18E-06	4.99E-07	0.00E+00	4.71E-06	1.60E-07	5.13E-07	7.87E-08	7.52E-07	7.01E-09	3.92E-08	4.62E-09	5.08E-08
1053	577120.24	4194160.25	1.07E-06	3.32E-06	5.20E-07	0.00E+00	4.91E-06	1.66E-07	5.35E-07	8.21E-08	7.84E-07	7.30E-09	4.08E-08	4.82E-09	5.30E-08
1054	577127.34	4194154.5	1.10E-06	3.42E-06	5.36E-07	0.00E+00	5.06E-06	1.72E-07	5.52E-07	8.47E-08	8.08E-07	7.53E-09	4.21E-08	4.97E-09	5.46E-08
1055	577155.73	4194131.49	1.13E-06	3.52E-06	5.51E-07	0.00E+00	5.20E-06	1.76E-07	5.67E-07	8.70E-08	8.30E-07	7.74E-09	4.33E-08	5.10E-09	5.61E-08
1056	577162.83	4194125.74	1.12E-06	3.47E-06	5.43E-07	0.00E+00	5.12E-06	1.74E-07	5.59E-07	8.57E-08	8.18E-07	7.63E-09	4.27E-08	5.03E-09	5.53E-08
1057	577169.93	4194119.99	1.09E-06	3.39E-06	5.31E-07	0.00E+00	5.02E-06	1.70E-07	5.47E-07	8.39E-08	8.01E-07	7.47E-09	4.18E-08	4.92E-09	5.42E-08
1058	577178.45	4194116.53	1.09E-06	3.40E-06	5.33E-07	0.00E+00	5.03E-06	1.71E-07	5.48E-07	8.41E-08	8.03E-07	7.49E-09	4.19E-08	4.94E-09	5.43E-08
1059	577187.55	4194115.72	1.13E-06	3.50E-06	5.48E-07	0.00E+00	5.17E-06	1.75E-07	5.64E-07	8.65E-08	8.26E-07	7.70E-09	4.30E-08	5.07E-09	5.58E-08
1060	577196.65	4194114.91	1.15E-06	3.59E-06	5.62E-07	0.00E+00	5.30E-06	1.80E-07	5.78E-07	8.87E-08	8.47E-07	7.89E-09	4.41E-08	5.20E-09	5.72E-08
1061	577205.75	4194114.1	1.18E-06	3.67E-06	5.74E-07	0.00E+00	5.42E-06	1.84E-07	5.91E-07	9.07E-08	8.66E-07	8.07E-09	4.51E-08	5.32E-09	5.85E-08
1062	577214.85	4194113.29	1.20E-06	3.74E-06	5.86E-07	0.00E+00	5.53E-06	1.88E-07	6.04E-07	9.26E-08	8.84E-07	8.24E-09	4.61E-08	5.43E-09	5.97E-08
1063	577223.95	4194112.47	1.23E-06	3.82E-06	5.98E-07	0.00E+00	5.64E-06	1.91E-07	6.15E-07	9.43E-08	9.01E-07	8.39E-09	4.70E-08	5.54E-09	6.09E-08
1064	577233.05	4194111.66	1.25E-06	3.88E-06	6.08E-07	0.00E+00	5.74E-06	1.95E-07	6.26E-07	9.60E-08	9.17E-07	8.54E-09	4.78E-08	5.63E-09	6.20E-08
1065	577242.15	4194110.85	1.27E-06	3.95E-06	6.18E-07	0.00E+00	5.83E-06	1.98E-07	6.36E-07	9.76E-08	9.32E-07	8.68E-09	4.86E-08	5.73E-09	6.30E-08
1066	577251.25	4194110.04	1.29E-06	4.00E-06	6.27E-07	0.00E+00	5.92E-06	2.01E-07	6.46E-07	9.90E-08	9.45E-07	8.81E-09	4.93E-08	5.81E-09	6.39E-08
1067	577097.76	4194166.16	8.77E-07	2.73E-06	4.27E-07	0.00E+00	4.03E-06	1.37E-07	4.40E-07	6.74E-08	6.44E-07	6.00E-09	3.36E-08	3.96E-09	4.35E-08
1068	577104.86	4194160.41	9.21E-07	2.86E-06	4.48E-07	0.00E+00	4.23E-06	1.43E-07	4.62E-07	7.08E-08	6.76E-07	6.30E-09	3.52E-08	4.15E-09	4.57E-08
1069	577111.96	4194154.65	9.59E-07	2.98E-06	4.67E-07	0.00E+00	4.41E-06	1.49E-07	4.81E-07	7.37E-08	7.04E-07	6.56E-09	3.67E-08	4.33E-09	4.76E-08
1070	577119.07	4194148.89	9.90E-07	3.08E-06	4.82E-07	0.00E+00	4.55E-06	1.54E-07	4.96E-07	7.61E-08	7.27E-07	6.77E-09	3.79E-08	4.46E-09	4.91E-08
1071	577147.48	4194125.87	1.03E-06	3.19E-06	4.99E-07	0.00E+00	4.71E-06	1.60E-07	5.14E-07	7.89E-08	7.53E-07	7.02E-09	3.92E-08	4.63E-09	5.09E-08
1072	577154.58	4194120.11	1.01E-06	3.15E-06	4.94E-07	0.00E+00	4.66E-06	1.58E-07	5.08E-07	7.79E-08	7.44E-07	6.94E-09	3.88E-08	4.57E-09	5.03E-08
1073	577161.68	4194114.36	9.96E-07	3.10E-06	4.85E-07	0.00E+00	4.58E-06	1.55E-07	4.99E-07	7.66E-08	7.31E-07	6.81E-09	3.81E-08	4.49E-09	4.94E-08
1074	577168.79	4194108.6	9.73E-07	3.02E-06	4.74E-07	0.00E+00	4.47E-06	1.52E-07	4.88E-07	7.48E-08	7.14E-07	6.66E-09	3.72E-08	4.39E-09	4.83E-08
1075	577178.06	4194106.97	9.93E-07	3.09E-06	4.84E-07	0.00E+00	4.56E-06	1.55E-07	4.98E-07	7.64E-08	7.29E-07	6.79E-09	3.80E-08	4.48E-09	4.93E-08

1076	577187.16	4194106.15	1.02E-06	3.17E-06	4.96E-07	0.00E+00	4.68E-06	1.59E-07	5.10E-07	7.83E-08	7.47E-07	6.97E-09	3.90E-08	4.59E-09	5.05E-08
1077	577196.27	4194105.34	1.04E-06	3.24E-06	5.07E-07	0.00E+00	4.79E-06	1.62E-07	5.22E-07	8.01E-08	7.65E-07	7.12E-09	3.99E-08	4.70E-09	5.17E-08
1078	577205.38	4194104.53	1.06E-06	3.30E-06	5.17E-07	0.00E+00	4.88E-06	1.66E-07	5.33E-07	8.17E-08	7.80E-07	7.27E-09	4.07E-08	4.79E-09	5.27E-08
1079	577214.48	4194103.72	1.08E-06	3.37E-06	5.27E-07	0.00E+00	4.98E-06	1.69E-07	5.43E-07	8.32E-08	7.95E-07	7.41E-09	4.14E-08	4.88E-09	5.37E-08
1080	577223.59	4194102.9	1.10E-06	3.43E-06	5.37E-07	0.00E+00	5.07E-06	1.72E-07	5.52E-07	8.47E-08	8.09E-07	7.54E-09	4.22E-08	4.97E-09	5.47E-08
1081	577232.69	4194102.09	1.12E-06	3.48E-06	5.46E-07	0.00E+00	5.15E-06	1.75E-07	5.62E-07	8.62E-08	8.23E-07	7.67E-09	4.29E-08	5.06E-09	5.56E-08
1082	577241.8	4194101.28	1.14E-06	3.54E-06	5.54E-07	0.00E+00	5.23E-06	1.77E-07	5.71E-07	8.75E-08	8.35E-07	7.79E-09	4.36E-08	5.13E-09	5.65E-08
1083	577250.91	4194100.47	1.15E-06	3.59E-06	5.62E-07	0.00E+00	5.30E-06	1.80E-07	5.79E-07	8.87E-08	8.47E-07	7.89E-09	4.42E-08	5.21E-09	5.73E-08
1084	577089.47	4194160.57	7.94E-07	2.47E-06	3.86E-07	0.00E+00	3.65E-06	1.24E-07	3.98E-07	6.10E-08	5.82E-07	5.43E-09	3.04E-08	3.58E-09	3.94E-08
1085	577096.58	4194154.81	8.32E-07	2.59E-06	4.05E-07	0.00E+00	3.82E-06	1.30E-07	4.17E-07	6.40E-08	6.11E-07	5.69E-09	3.18E-08	3.75E-09	4.13E-08
1086	577103.68	4194149.05	8.66E-07	2.69E-06	4.21E-07	0.00E+00	3.98E-06	1.35E-07	4.34E-07	6.65E-08	6.35E-07	5.92E-09	3.31E-08	3.90E-09	4.29E-08
1087	577132.11	4194126.01	9.35E-07	2.90E-06	4.55E-07	0.00E+00	4.29E-06	1.46E-07	4.68E-07	7.18E-08	6.86E-07	6.39E-09	3.58E-08	4.21E-09	4.64E-08
1088	577139.22	4194120.25	9.33E-07	2.90E-06	4.54E-07	0.00E+00	4.29E-06	1.45E-07	4.68E-07	7.17E-08	6.85E-07	6.38E-09	3.57E-08	4.21E-09	4.63E-08
1089	577146.33	4194114.49	9.25E-07	2.87E-06	4.50E-07	0.00E+00	4.25E-06	1.44E-07	4.63E-07	7.11E-08	6.79E-07	6.32E-09	3.54E-08	4.17E-09	4.59E-08
1090	577153.44	4194108.73	9.11E-07	2.83E-06	4.43E-07	0.00E+00	4.19E-06	1.42E-07	4.57E-07	7.00E-08	6.69E-07	6.23E-09	3.49E-08	4.11E-09	4.52E-08
1091	577160.54	4194102.97	8.93E-07	2.78E-06	4.35E-07	0.00E+00	4.10E-06	1.39E-07	4.48E-07	6.86E-08	6.55E-07	6.11E-09	3.42E-08	4.03E-09	4.43E-08
1092	577168.55	4194098.21	8.82E-07	2.74E-06	4.30E-07	0.00E+00	4.05E-06	1.37E-07	4.42E-07	6.78E-08	6.48E-07	6.03E-09	3.38E-08	3.98E-09	4.38E-08
1093	577177.66	4194097.4	9.04E-07	2.81E-06	4.40E-07	0.00E+00	4.16E-06	1.41E-07	4.53E-07	6.95E-08	6.64E-07	6.19E-09	3.46E-08	4.08E-09	4.49E-08
1094	577186.77	4194096.58	9.25E-07	2.87E-06	4.50E-07	0.00E+00	4.25E-06	1.44E-07	4.63E-07	7.11E-08	6.79E-07	6.32E-09	3.54E-08	4.17E-09	4.59E-08
1095	577195.89	4194095.77	9.44E-07	2.93E-06	4.59E-07	0.00E+00	4.34E-06	1.47E-07	4.73E-07	7.25E-08	6.93E-07	6.45E-09	3.61E-08	4.26E-09	4.68E-08
1096	577205	4194094.96	9.62E-07	2.99E-06	4.68E-07	0.00E+00	4.42E-06	1.50E-07	4.82E-07	7.39E-08	7.06E-07	6.58E-09	3.68E-08	4.34E-09	4.77E-08
1097	577214.11	4194094.15	9.79E-07	3.04E-06	4.77E-07	0.00E+00	4.50E-06	1.53E-07	4.91E-07	7.52E-08	7.18E-07	6.69E-09	3.74E-08	4.41E-09	4.86E-08
1098	577223.22	4194093.33	9.96E-07	3.10E-06	4.85E-07	0.00E+00	4.58E-06	1.55E-07	4.99E-07	7.65E-08	7.31E-07	6.81E-09	3.81E-08	4.49E-09	4.94E-08
1099	577232.33	4194092.52	1.01E-06	3.14E-06	4.93E-07	0.00E+00	4.65E-06	1.58E-07	5.07E-07	7.78E-08	7.42E-07	6.92E-09	3.87E-08	4.56E-09	5.02E-08
1100	577241.45	4194091.71	1.03E-06	3.19E-06	5.00E-07	0.00E+00	4.72E-06	1.60E-07	5.15E-07	7.89E-08	7.54E-07	7.02E-09	3.93E-08	4.63E-09	5.09E-08
1101	577250.56	4194090.89	1.04E-06	3.23E-06	5.07E-07	0.00E+00	4.78E-06	1.62E-07	5.21E-07	8.00E-08	7.64E-07	7.12E-09	3.98E-08	4.69E-09	5.16E-08
1102	577081.18	4194154.97	7.21E-07	2.24E-06	3.51E-07	0.00E+00	3.31E-06	1.12E-07	3.61E-07	5.54E-08	5.29E-07	4.93E-09	2.76E-08	3.25E-09	3.58E-08
1103	577088.29	4194149.21	7.55E-07	2.35E-06	3.67E-07	0.00E+00	3.47E-06	1.18E-07	3.78E-07	5.80E-08	5.54E-07	5.16E-09	2.89E-08	3.40E-09	3.74E-08
1104	577095.4	4194143.45	7.85E-07	2.44E-06	3.82E-07	0.00E+00	3.61E-06	1.22E-07	3.93E-07	6.03E-08	5.76E-07	5.37E-09	3.00E-08	3.54E-09	3.89E-08
1105	577123.85	4194120.4	8.51E-07	2.64E-06	4.14E-07	0.00E+00	3.91E-06	1.33E-07	4.26E-07	6.54E-08	6.24E-07	5.82E-09	3.25E-08	3.84E-09	4.22E-08
1106	577130.96	4194114.63	8.51E-07	2.65E-06	4.14E-07	0.00E+00	3.91E-06	1.33E-07	4.27E-07	6.54E-08	6.25E-07	5.82E-09	3.26E-08	3.84E-09	4.22E-08
1107	577138.07	4194108.87	8.46E-07	2.63E-06	4.12E-07	0.00E+00	3.89E-06	1.32E-07	4.24E-07	6.50E-08	6.21E-07	5.78E-09	3.24E-08	3.81E-09	4.20E-08
1108	577145.18	4194103.11	8.36E-07	2.60E-06	4.07E-07	0.00E+00	3.84E-06	1.30E-07	4.19E-07	6.42E-08	6.13E-07	5.72E-09	3.20E-08	3.77E-09	4.15E-08
1109	577152.29	4194097.35	8.22E-07	2.55E-06	4.00E-07	0.00E+00	3.78E-06	1.28E-07	4.12E-07	6.32E-08	6.03E-07	5.62E-09	3.14E-08	3.71E-09	4.08E-08
1110	577159.4	4194091.58	8.04E-07	2.50E-06	3.91E-07	0.00E+00	3.69E-06	1.25E-07	4.03E-07	6.18E-08	5.90E-07	5.50E-09	3.08E-08	3.63E-09	3.99E-08
1111	577168.16	4194088.64	8.08E-07	2.51E-06	3.93E-07	0.00E+00	3.71E-06	1.26E-07	4.05E-07	6.21E-08	5.93E-07	5.53E-09	3.09E-08	3.64E-09	4.01E-08
1112	577177.27	4194087.83	8.26E-07	2.57E-06	4.02E-07	0.00E+00	3.80E-06	1.29E-07	4.14E-07	6.35E-08	6.06E-07	5.65E-09	3.16E-08	3.72E-09	4.10E-08
1113	577186.39	4194087.02	8.43E-07	2.62E-06	4.10E-07	0.00E+00	3.87E-06	1.31E-07	4.22E-07	6.48E-08	6.18E-07	5.76E-09	3.22E-08	3.80E-09	4.18E-08
1114	577195.51	4194086.2	8.58E-07	2.67E-06	4.18E-07	0.00E+00	3.94E-06	1.34E-07	4.30E-07	6.59E-08	6.30E-07	5.87E-09	3.28E-08	3.87E-09	4.26E-08
1115	577204.62	4194085.39	8.73E-07	2.71E-06	4.25E-07	0.00E+00	4.01E-06	1.36E-07	4.38E-07	6.71E-08	6.41E-07	5.97E-09	3.34E-08	3.94E-09	4.33E-08
1116	577213.74	4194084.58	8.88E-07	2.76E-06	4.32E-07	0.00E+00	4.08E-06	1.38E-07	4.45E-07	6.83E-08	6.52E-07	6.07E-09	3.40E-08	4.01E-09	4.41E-08
1117	577222.86	4194083.76	9.03E-07	2.81E-06	4.40E-07	0.00E+00	4.15E-06	1.41E-07	4.53E-07	6.94E-08	6.63E-07	6.18E-09	3.46E-08	4.07E-09	4.48E-08
1118	577231.97	4194082.95	9.17E-07	2.85E-06	4.46E-07	0.00E+00	4.21E-06	1.43E-07	4.60E-07	7.05E-08	6.73E-07	6.27E-09	3.51E-08	4.14E-09	4.55E-08
1119	577241.09	4194082.14	9.30E-07	2.89E-06	4.53E-07	0.00E+00	4.27E-06	1.45E-07	4.66E-07	7.15E-08	6.83E-07	6.36E-09	3.56E-08	4.19E-09	4.61E-08
1120	577250.21	4194081.32	9.42E-07	2.93E-06	4.59E-07	0.00E+00	4.33E-06	1.47E-07	4.72E-07	7.24E-08	6.91E-07	6.44E-09	3.60E-08	4.25E-09	4.67E-08
1121	577072.89	4194149.38	6.57E-07	2.04E-06	3.20E-07	0.00E+00	3.02E-06	1.02E-07	3.29E-07	5.05E-08	4.82E-07	4.50E-09	2.51E-08	2.96E-09	3.26E-08
1122	577080.01	4194143.61	6.87E-07	2.14E-06	3.35E-07	0.00E+00	3.16E-06	1.07E-07	3.44E-07	5.28E-08	5.04E-07	4.70E-09	2.63E-08	3.10E-09	3.41E-08
1123	577108.47	4194120.55	7.69E-07	2.39E-06	3.74E-07	0.00E+00	3.53E-06	1.20E-07	3.85E-07	5.91E-08	5.64E-07	5.26E-09	2.94E-08	3.47E-09	3.82E-08
1124	577115.58	4194114.78	7.77E-07	2.41E-06	3.78E-07	0.00E+00	3.57E-06	1.21E-07	3.89E-07	5.97E-08	5.70E-07	5.31E-09	2.97E-08	3.50E-09	3.85E-08
1125	577122.7	4194109.02	7.79E-07	2.42E-06	3.79E-07	0.00E+00	3.58E-06	1.21E-07	3.90E-07	5.99E-08	5.72E-07	5.33E-09	2.98E-08	3.51E-09	3.87E-08
1126	577129.81	4194103.25	7.76E-07	2.41E-06	3.78E-07	0.00E+00	3.57E-06	1.21E-07	3.89E-07	5.96E-08	5.69E-07	5.31E-09	2.97E-08	3.50E-09	3.85E-08
1127	577136.92	4194097.49	7.69E-07	2.39E-06	3.74E-07	0.00E+00	3.53E-06	1.20E-07	3.85E-07	5.91E-08	5.64E-07	5.26E-09	2.94E-08	3.47E-09	3.81E-08
1128	577144.04	4194091.72	7.58E-07	2.35E-06	3.69E-07	0.00E+00	3.48E-06	1.18E-07	3.80E-07	5.82E-08	5.56E-07	5.18E-09	2.90E-08	3.42E-09	3.76E-08
1129	577151.15	4194085.96	7.43E-07	2.31E-06	3.62E-07	0.00E+00	3.42E-06	1.16E-07	3.73E-07	5.71E-08	5.45E-07	5.08E-09	2.84E-08	3.35E-09	3.69E-08
1130	577158.27	4194080.19	7.26E-07	2.26E-06	3.54E-07	0.00E+00	3.34E-06	1.13E-07	3.64E-07	5.58E-08	5.33E-07	4.97E-09	2.78E-08	3.28E-09	3.60E-08
1131	577167.28	4194079.12	7.41E-07	2.30E-06	3.61E-07	0.00E+00	3.40E-06	1.15E-07	3.71E-07	5.69E-08	5.44E-07	5.07E-09	2.83E-08	3.34E-09	3.68E-08
1132	577176.4	4194078.3	7.56E-07	2.35E-06	3.68E-07	0.00E+00	3.47E-06	1.18E-07	3.79E-07	5.81E-08	5.55E-07	5.17E-09	2.89E-08	3.41E-09	3.75E-08
1133	577185.53	4194077.49	7.69E-07	2.39E-06	3.75E-07	0.00E+00	3.54E-06	1.20E-07	3.86E-07	5.91E-08	5.65E-07	5.26E-09	2.94E-08	3.47E-09	3.82E-08
1134	577194.65	4194076.68	7.82E-07	2.43E-06	3.81E-07	0.00E+00	3.59E-06	1.22E-07	3.92E-07	6.01E-08	5.74E-07	5.35E-09	2.99E-08	3.53E-09	3.88E-08
1135	577203.77	4194075.86	7.95E-07	2.47E-06	3.87E-07	0.00E+00	3.65E-06	1.24E-07	3.99E-07	6.11E-08	5.84E-07	5.44E-09	3.04E-08	3.59E-09	3.95E-08
1136	577212.89	4194075.05	8.08E-07	2.51E-06	3.94E-07	0.00E+00	3.71E-06	1.26E-07	4.05E-07	6.21E-08	5.93E-07	5.53E-09	3.09E-08	3.65E-09	4.01E-08
1137	577222.01	4194074.23	8.21E-07	2.55E-06	4.00E-07	0.00E+00	3.77E-06	1.28E-07	4.12E-07	6.31E-08	6.03E-07	5.62E-09	3.14E-08	3.70E-09	4.07E-08
1138	577231.13	4194073.42	8.34E-07	2.59E-06	4.06E-07	0.00E+00	3.83E-06	1.30E-07	4.18E-07	6.41E-08	6.12E-07	5.70E-09	3.19E-08	3.76E-09	4.13E-08
1139	577240.25	4194072.61	8.45E-07	2.63E-06	4.11E-07	0.00E+00	3.88E-06	1.32E-07	4.24E-07	6.50E-08	6.20E-07	5.78E-09	3.23E-08	3.81E-09	4.19E-08
1140	577249.37	4194071.79	8.56E-07	2.66E-06	4.17E-07	0.00E+00	3.93E-06	1.33E-07	4.29E-07	6.58E-08	6.28E-07	5.85E-09	3.27E-08	3.86E-09	4.24E-08
1141	577258.49	4194070.98	8.66E-07	2.69E-06	4.21E-07	0.00E+00	3.98E-06	1.35E-07	4.34E-07	6.65E-08	6.35E-07	5.92E-09	3.31E-08	3.90E-09	4.29E-08
1142	577064.6	4194143.78	6.02E-07	1.87E-06	2.93E-07	0.00E+00	2.76E-06	9.37E-08	3.02E-07	4.62E-08	4.41E-07	4.11E-09	2.30E-08	2.71E-09	2.98E-08
1143	577093.08	4194120.71	6.91E-07	2.15E-06	3.36E-07	0.00E+00	3.17E-06	1.08E-07	3.46E-07	5.31E-08	5.07E-07	4.72E-09	2.64E-08	3.11E-09	3.43E-08
1144	577100.19	4194114.94	7.03E-07	2.19E-06	3.42E-07	0.00E+00	3.23E-06	1.10E-07	3.52E-07	5.41E-08	5.16E-07	4.81E-09	2.69E-08	3.17E-09	3.49E-08
1145	577107.31	4194109.17	7.12E-07	2.21E-06	3.46E-07	0.00E+00	3.27E-06	1.11E-07	3.57E-07	5.47E-08	5.22E-07	4.87E-09	2.72E-08	3.21E-09	3.53E-08
1146	577114.43	4194103.41	7.15E-07	2.22E-06	3.48E-07	0.00E+00	3.29E-06	1.11E-07	3.58E-07	5.50E-08	5.25E-07	4.89E-09	2.74E-08	3.22E-09	3.55E-08
1147	577121.55	4194097.64	7.14E-07	2.22E-06	3.48E-07	0.00E+00	3.28E-06	1.11E-07	3.58E-07	5.49E-08	5.24E-07	4.88E-09	2.73E-08	3.22E-09	3.54E-08
1148	577128.66	4194091.87	7.09E-07	2.20E-06	3.45E-07	0.00E+00	3.26E-06	1.10E-07	3.55E-07	5.45E-08	5.20E-07	4.85E-09	2.71E-08	3.20E-09	3.52E-08
1149	577135.78	4194086.1	7.00E-07	2.18E-06	3.41E-07	0.00E+00	3.22E-06	1.09E-07	3.51E-07	5.38E-08	5.14E-07	4.79E-09	2.68E-08	3.16E-09	3.47E-08
1150	577142.9	4194080.34	6.89E-07	2.14E-06	3.35E-07	0.00E+00	3.16E-06	1.07E-07	3.45E-07	5.29E-08	5.05E-07	4.71E-09	2.63E-08	3.11E-09	3.42E-08
1151	577150.02	4194074.57	6.75E-07	2.10E-06	3.28E-07	0.00E+00	3.10E-06	1.05E-07	3.38E-07	5.18E-08	4.95E-07	4.61E-09	2.58E-08	3.04E-09	3.35E-08
1152	577158.25	4194070.32	6.69E-07	2.08E-06	3.26E-07	0.00E+00	3.07E-06	1.04E-07	3.35E-07	5.14E-08	4.91E-07	4.57E-09	2.56E-08	3.02E-09	3.32E-08
1153	577167.37	4194069.51	6.82E-07	2.12E-06	3.32E-07	0.00E+00	3.14E-06	1.06E-07	3.42E-07	5.24E-08	5.01E-07	4.67E-09	2.61E-08	3.08E-09	3.38E-08
1154	577176.5	4194068.69	6.95E-07	2.16E-06	3.38E-07	0.00E+00	3.19E-06	1.08E-07	3.48E-07	5.34E-08	5.10E-07	4.75E-09	2.66E-08	3.13E-09	3.45E-08
1155	577185.62	4194067.88	7.06E-07	2.20E-06	3.44E-07	0.00E+00	3.24E-06	1.10E-07	3.54E-07	5.43E-08	5.18E-07	4.83E-09	2.70E-08	3.18E-09	3.50E-08
1156	577194.75	4194067.06	7.17E-07	2.23E-06	3.49E-07	0.00E+00	3.30E-06	1.12E-07	3.59E-07	5.51E-08	5.26E-07	4.91E-09	2.74E-08	3.23E-09	3.56E-08
1157	577203.87	4194066.25	7.28E-07	2.26E-06	3.55E-07	0.00E+00	3.35E-06	1.13E-07	3.65E-07	5.60E-08	5.35E-07	4.98E-09	2.79E-08	3.28E-09	3.61E-08
1158	577213	4194065.44	7.40E-07	2.30E-06	3.60E-07	0.00E+00	3.40E-06	1.15E-07	3.71E-07	5.68E-08	5.43E-07	5.06E-09	2.83E-08	3.33E-09	3.67E-08

1159	577222.12	4194064.62	7.51E-07	2.33E-06	3.65E-07	0.00E+00	3.45E-06	1.17E-07	3.76E-07	5.77E-08	5.51E-07	5.13E-09	2.87E-08	3.38E-09	3.72E-08
1160	577231.25	4194063.81	7.61E-07	2.37E-06	3.71E-07	0.00E+00	3.50E-06	1.19E-07	3.82E-07	5.85E-08	5.59E-07	5.21E-09	2.91E-08	3.43E-09	3.78E-08
1161	577240.37	4194062.99	7.72E-07	2.40E-06	3.76E-07	0.00E+00	3.55E-06	1.20E-07	3.87E-07	5.93E-08	5.66E-07	5.28E-09	2.95E-08	3.48E-09	3.83E-08
1162	577249.5	4194062.18	7.81E-07	2.43E-06	3.80E-07	0.00E+00	3.59E-06	1.22E-07	3.91E-07	6.00E-08	5.73E-07	5.34E-09	2.99E-08	3.52E-09	3.87E-08
1163	577258.62	4194061.36	7.90E-07	2.45E-06	3.84E-07	0.00E+00	3.63E-06	1.23E-07	3.96E-07	6.07E-08	5.80E-07	5.40E-09	3.02E-08	3.56E-09	3.92E-08
1164	577056.32	4194138.19	5.53E-07	1.72E-06	2.69E-07	0.00E+00	2.54E-06	8.61E-08	2.77E-07	4.25E-08	4.05E-07	3.78E-09	2.11E-08	2.49E-09	2.74E-08
1165	577084.8	4194115.11	6.33E-07	1.97E-06	3.08E-07	0.00E+00	2.91E-06	9.86E-08	3.17E-07	4.87E-08	4.65E-07	4.33E-09	2.42E-08	2.86E-09	3.14E-08
1166	577091.92	4194109.34	6.45E-07	2.01E-06	3.14E-07	0.00E+00	2.97E-06	1.01E-07	3.23E-07	4.96E-08	4.74E-07	4.41E-09	2.47E-08	2.91E-09	3.20E-08
1167	577099.04	4194103.57	6.54E-07	2.03E-06	3.18E-07	0.00E+00	3.00E-06	1.02E-07	3.28E-07	5.02E-08	4.80E-07	4.47E-09	2.50E-08	2.95E-09	3.24E-08
1168	577106.16	4194097.8	6.58E-07	2.04E-06	3.20E-07	0.00E+00	3.02E-06	1.02E-07	3.30E-07	5.06E-08	4.83E-07	4.50E-09	2.52E-08	2.97E-09	3.26E-08
1169	577113.28	4194092.03	6.58E-07	2.05E-06	3.20E-07	0.00E+00	3.02E-06	1.03E-07	3.30E-07	5.06E-08	4.83E-07	4.50E-09	2.52E-08	2.97E-09	3.27E-08
1170	577120.4	4194086.26	6.55E-07	2.04E-06	3.19E-07	0.00E+00	3.01E-06	1.02E-07	3.28E-07	5.03E-08	4.81E-07	4.48E-09	2.51E-08	2.95E-09	3.25E-08
1171	577127.52	4194080.49	6.48E-07	2.02E-06	3.16E-07	0.00E+00	2.98E-06	1.01E-07	3.25E-07	4.98E-08	4.76E-07	4.43E-09	2.48E-08	2.92E-09	3.22E-08
1172	577134.64	4194074.72	6.39E-07	1.99E-06	3.11E-07	0.00E+00	2.94E-06	9.96E-08	3.20E-07	4.91E-08	4.69E-07	4.37E-09	2.44E-08	2.88E-09	3.17E-08
1173	577141.76	4194068.95	6.27E-07	1.95E-06	3.05E-07	0.00E+00	2.88E-06	9.77E-08	3.14E-07	4.82E-08	4.60E-07	4.29E-09	2.40E-08	2.83E-09	3.11E-08
1174	577148.88	4194063.18	6.14E-07	1.91E-06	2.99E-07	0.00E+00	2.82E-06	9.56E-08	3.08E-07	4.72E-08	4.50E-07	4.20E-09	2.35E-08	2.77E-09	3.04E-08
1175	577157.86	4194060.75	6.18E-07	1.92E-06	3.01E-07	0.00E+00	2.84E-06	9.63E-08	3.10E-07	4.75E-08	4.53E-07	4.23E-09	2.36E-08	2.79E-09	3.07E-08
1176	577166.99	4194059.94	6.29E-07	1.96E-06	3.06E-07	0.00E+00	2.89E-06	9.80E-08	3.15E-07	4.84E-08	4.62E-07	4.30E-09	2.41E-08	2.84E-09	3.12E-08
1177	577176.11	4194059.12	6.40E-07	1.99E-06	3.11E-07	0.00E+00	2.94E-06	9.96E-08	3.21E-07	4.92E-08	4.69E-07	4.37E-09	2.45E-08	2.88E-09	3.17E-08
1178	577185.24	4194058.31	6.50E-07	2.02E-06	3.16E-07	0.00E+00	2.98E-06	1.01E-07	3.26E-07	4.99E-08	4.77E-07	4.44E-09	2.48E-08	2.93E-09	3.22E-08
1179	577194.37	4194057.49	6.59E-07	2.05E-06	3.21E-07	0.00E+00	3.03E-06	1.03E-07	3.30E-07	5.07E-08	4.84E-07	4.51E-09	2.52E-08	2.97E-09	3.27E-08
1180	577203.5	4194056.68	6.69E-07	2.08E-06	3.26E-07	0.00E+00	3.07E-06	1.04E-07	3.35E-07	5.14E-08	4.91E-07	4.57E-09	2.56E-08	3.02E-09	3.32E-08
1181	577212.63	4194055.87	6.78E-07	2.11E-06	3.30E-07	0.00E+00	3.12E-06	1.06E-07	3.40E-07	5.21E-08	4.98E-07	4.64E-09	2.59E-08	3.06E-09	3.36E-08
1182	577221.76	4194055.05	6.88E-07	2.14E-06	3.35E-07	0.00E+00	3.16E-06	1.07E-07	3.45E-07	5.28E-08	5.05E-07	4.70E-09	2.63E-08	3.10E-09	3.41E-08
1183	577230.89	4194054.24	6.97E-07	2.17E-06	3.39E-07	0.00E+00	3.20E-06	1.09E-07	3.49E-07	5.36E-08	5.12E-07	4.77E-09	2.67E-08	3.14E-09	3.46E-08
1184	577240.01	4194053.42	7.06E-07	2.20E-06	3.44E-07	0.00E+00	3.25E-06	1.10E-07	3.54E-07	5.43E-08	5.18E-07	4.83E-09	2.70E-08	3.19E-09	3.50E-08
1185	577249.14	4194052.61	7.15E-07	2.22E-06	3.48E-07	0.00E+00	3.29E-06	1.11E-07	3.58E-07	5.50E-08	5.25E-07	4.89E-09	2.74E-08	3.22E-09	3.55E-08
1186	577258.27	4194051.79	7.23E-07	2.25E-06	3.52E-07	0.00E+00	3.32E-06	1.13E-07	3.62E-07	5.55E-08	5.30E-07	4.94E-09	2.76E-08	3.26E-09	3.58E-08
1187	577069.4	4194115.28	5.68E-07	1.76E-06	2.76E-07	0.00E+00	2.61E-06	8.85E-08	2.85E-07	4.36E-08	4.17E-07	3.88E-09	2.17E-08	2.56E-09	2.82E-08
1188	577076.52	4194109.5	5.82E-07	1.81E-06	2.83E-07	0.00E+00	2.67E-06	9.07E-08	2.92E-07	4.47E-08	4.27E-07	3.98E-09	2.23E-08	2.63E-09	2.89E-08
1189	577083.64	4194103.73	5.94E-07	1.85E-06	2.89E-07	0.00E+00	2.73E-06	9.25E-08	2.98E-07	4.56E-08	4.36E-07	4.06E-09	2.27E-08	2.68E-09	2.94E-08
1190	577090.77	4194097.96	6.02E-07	1.87E-06	2.93E-07	0.00E+00	2.77E-06	9.38E-08	3.02E-07	4.63E-08	4.42E-07	4.12E-09	2.30E-08	2.71E-09	2.99E-08
1191	577097.89	4194092.19	6.07E-07	1.89E-06	2.95E-07	0.00E+00	2.79E-06	9.45E-08	3.04E-07	4.66E-08	4.45E-07	4.15E-09	2.32E-08	2.74E-09	3.01E-08
1192	577105.01	4194086.41	6.08E-07	1.89E-06	2.96E-07	0.00E+00	2.79E-06	9.47E-08	3.05E-07	4.67E-08	4.46E-07	4.16E-09	2.33E-08	2.74E-09	3.02E-08
1193	577112.14	4194080.64	6.06E-07	1.88E-06	2.95E-07	0.00E+00	2.79E-06	9.45E-08	3.04E-07	4.66E-08	4.45E-07	4.15E-09	2.32E-08	2.73E-09	3.01E-08
1194	577119.26	4194074.87	6.01E-07	1.87E-06	2.93E-07	0.00E+00	2.76E-06	9.37E-08	3.01E-07	4.62E-08	4.41E-07	4.11E-09	2.30E-08	2.71E-09	2.98E-08
1195	577126.38	4194069.1	5.94E-07	1.85E-06	2.89E-07	0.00E+00	2.73E-06	9.26E-08	2.98E-07	4.57E-08	4.36E-07	4.06E-09	2.27E-08	2.68E-09	2.95E-08
1196	577133.5	4194063.33	5.85E-07	1.82E-06	2.85E-07	0.00E+00	2.69E-06	9.11E-08	2.93E-07	4.49E-08	4.29E-07	4.00E-09	2.24E-08	2.64E-09	2.90E-08
1197	577140.63	4194057.55	5.73E-07	1.78E-06	2.79E-07	0.00E+00	2.63E-06	8.93E-08	2.87E-07	4.40E-08	4.21E-07	3.92E-09	2.19E-08	2.58E-09	2.84E-08
1198	577147.86	4194052.04	5.61E-07	1.74E-06	2.73E-07	0.00E+00	2.58E-06	8.75E-08	2.81E-07	4.31E-08	4.12E-07	3.84E-09	2.15E-08	2.53E-09	2.78E-08
1199	577156.99	4194051.23	5.72E-07	1.78E-06	2.78E-07	0.00E+00	2.63E-06	8.91E-08	2.86E-07	4.39E-08	4.19E-07	3.91E-09	2.19E-08	2.58E-09	2.84E-08
1200	577166.12	4194050.41	5.81E-07	1.81E-06	2.83E-07	0.00E+00	2.67E-06	9.05E-08	2.91E-07	4.47E-08	4.26E-07	3.97E-09	2.22E-08	2.62E-09	2.88E-08
1201	577175.25	4194049.6	5.90E-07	1.83E-06	2.87E-07	0.00E+00	2.71E-06	9.19E-08	2.96E-07	4.53E-08	4.33E-07	4.03E-09	2.26E-08	2.66E-09	2.93E-08
1202	577184.38	4194048.78	5.99E-07	1.86E-06	2.91E-07	0.00E+00	2.75E-06	9.33E-08	3.00E-07	4.60E-08	4.39E-07	4.09E-09	2.29E-08	2.70E-09	2.97E-08
1203	577193.52	4194047.97	6.07E-07	1.89E-06	2.96E-07	0.00E+00	2.79E-06	9.46E-08	3.04E-07	4.67E-08	4.45E-07	4.15E-09	2.32E-08	2.74E-09	3.01E-08
1204	577202.65	4194047.15	6.15E-07	1.91E-06	2.99E-07	0.00E+00	2.83E-06	9.59E-08	3.08E-07	4.73E-08	4.51E-07	4.21E-09	2.35E-08	2.77E-09	3.05E-08
1205	577211.78	4194046.34	6.23E-07	1.94E-06	3.03E-07	0.00E+00	2.86E-06	9.71E-08	3.12E-07	4.79E-08	4.57E-07	4.26E-09	2.39E-08	2.81E-09	3.09E-08
1206	577220.91	4194045.52	6.32E-07	1.96E-06	3.07E-07	0.00E+00	2.90E-06	9.84E-08	3.17E-07	4.85E-08	4.63E-07	4.32E-09	2.42E-08	2.85E-09	3.13E-08
1207	577230.04	4194044.71	6.40E-07	1.99E-06	3.12E-07	0.00E+00	2.94E-06	9.97E-08	3.21E-07	4.92E-08	4.70E-07	4.38E-09	2.45E-08	2.89E-09	3.18E-08
1208	577239.17	4194043.89	6.48E-07	2.02E-06	3.16E-07	0.00E+00	2.98E-06	1.01E-07	3.25E-07	4.98E-08	4.76E-07	4.43E-09	2.48E-08	2.92E-09	3.22E-08
1209	577248.31	4194043.08	6.56E-07	2.04E-06	3.19E-07	0.00E+00	3.02E-06	1.02E-07	3.29E-07	5.04E-08	4.82E-07	4.49E-09	2.51E-08	2.96E-09	3.25E-08
1210	577257.44	4194042.26	6.63E-07	2.06E-06	3.23E-07	0.00E+00	3.05E-06	1.03E-07	3.32E-07	5.10E-08	4.86E-07	4.53E-09	2.54E-08	2.99E-09	3.29E-08
1211	577061.04	4194109.74	5.24E-07	1.63E-06	2.55E-07	0.00E+00	2.41E-06	8.16E-08	2.62E-07	4.02E-08	3.84E-07	3.58E-09	2.00E-08	2.36E-09	2.60E-08
1212	577068.14	4194103.98	5.37E-07	1.67E-06	2.61E-07	0.00E+00	2.47E-06	8.36E-08	2.69E-07	4.13E-08	3.94E-07	3.67E-09	2.05E-08	2.42E-09	2.66E-08
1213	577075.24	4194098.23	5.48E-07	1.70E-06	2.67E-07	0.00E+00	2.52E-06	8.53E-08	2.74E-07	4.21E-08	4.02E-07	3.74E-09	2.09E-08	2.47E-09	2.72E-08
1214	577082.34	4194092.48	5.56E-07	1.73E-06	2.70E-07	0.00E+00	2.55E-06	8.66E-08	2.78E-07	4.27E-08	4.08E-07	3.80E-09	2.13E-08	2.51E-09	2.76E-08
1215	577089.44	4194086.72	5.61E-07	1.74E-06	2.73E-07	0.00E+00	2.58E-06	8.74E-08	2.81E-07	4.31E-08	4.11E-07	3.83E-09	2.15E-08	2.53E-09	2.78E-08
1216	577096.54	4194080.97	5.63E-07	1.75E-06	2.74E-07	0.00E+00	2.59E-06	8.77E-08	2.82E-07	4.33E-08	4.13E-07	3.85E-09	2.15E-08	2.54E-09	2.79E-08
1217	577103.64	4194075.22	5.62E-07	1.75E-06	2.74E-07	0.00E+00	2.58E-06	8.76E-08	2.82E-07	4.32E-08	4.13E-07	3.85E-09	2.15E-08	2.54E-09	2.79E-08
1218	577110.74	4194069.46	5.59E-07	1.74E-06	2.72E-07	0.00E+00	2.57E-06	8.71E-08	2.80E-07	4.30E-08	4.10E-07	3.82E-09	2.14E-08	2.52E-09	2.77E-08
1219	577117.84	4194063.71	5.54E-07	1.72E-06	2.69E-07	0.00E+00	2.54E-06	8.62E-08	2.77E-07	4.25E-08	4.06E-07	3.79E-09	2.12E-08	2.50E-09	2.75E-08
1220	577124.94	4194057.96	5.46E-07	1.70E-06	2.66E-07	0.00E+00	2.51E-06	8.50E-08	2.74E-07	4.20E-08	4.01E-07	3.73E-09	2.09E-08	2.46E-09	2.71E-08
1221	577132.04	4194052.2	5.36E-07	1.67E-06	2.61E-07	0.00E+00	2.46E-06	8.36E-08	2.69E-07	4.12E-08	3.94E-07	3.67E-09	2.05E-08	2.42E-09	2.66E-08
1222	577139.14	4194046.45	5.25E-07	1.63E-06	2.56E-07	0.00E+00	2.41E-06	8.19E-08	2.63E-07	4.04E-08	3.86E-07	3.59E-09	2.01E-08	2.37E-09	2.61E-08
1223	577147.45	4194042.48	5.22E-07	1.62E-06	2.54E-07	0.00E+00	2.40E-06	8.13E-08	2.62E-07	4.01E-08	3.83E-07	3.57E-09	2.00E-08	2.35E-09	2.59E-08
1224	577156.55	4194041.66	5.30E-07	1.65E-06	2.58E-07	0.00E+00	2.44E-06	8.26E-08	2.66E-07	4.08E-08	3.89E-07	3.63E-09	2.03E-08	2.39E-09	2.63E-08
1225	577165.66	4194040.85	5.38E-07	1.67E-06	2.62E-07	0.00E+00	2.47E-06	8.39E-08	2.70E-07	4.14E-08	3.95E-07	3.68E-09	2.06E-08	2.43E-09	2.67E-08
1226	577174.76	4194040.04	5.46E-07	1.70E-06	2.66E-07	0.00E+00	2.51E-06	8.51E-08	2.74E-07	4.20E-08	4.01E-07	3.73E-09	2.09E-08	2.46E-09	2.71E-08
1227	577183.86	4194039.23	5.53E-07	1.72E-06	2.69E-07	0.00E+00	2.54E-06	8.62E-08	2.77E-07	4.25E-08	4.06E-07	3.78E-09	2.12E-08	2.50E-09	2.74E-08
1228	577192.96	4194038.41	5.61E-07	1.74E-06	2.73E-07	0.00E+00	2.58E-06	8.74E-08	2.81E-07	4.31E-08	4.11E-07	3.83E-09	2.15E-08	2.53E-09	2.78E-08
1229	577202.06	4194037.6	5.68E-07	1.77E-06	2.76E-07	0.00E+00	2.61E-06	8.85E-08	2.85E-07	4.37E-08	4.17E-07	3.88E-09	2.17E-08	2.56E-09	2.82E-08
1230	577211.17	4194036.79	5.75E-07	1.79E-06	2.80E-07	0.00E+00	2.64E-06	8.96E-08	2.88E-07	4.42E-08	4.22E-07	3.93E-09	2.20E-08	2.59E-09	2.85E-08
1231	577220.27	4194035.98	5.83E-07	1.81E-06	2.84E-07	0.00E+00	2.68E-06	9.08E-08	2.92E-07	4.48E-08	4.28E-07	3.98E-09	2.23E-08	2.63E-09	2.89E-08
1232	577229.37	4194035.17	5.90E-07	1.83E-06	2.87E-07	0.00E+00	2.71E-06	9.19E-08	2.96E-07	4.54E-08	4.33E-07	4.04E-09	2.26E-08	2.66E-09	2.93E-08
1233	577238.47	4194034.35	5.97E-07	1.86E-06	2.91E-07	0.00E+00	2.74E-06	9.31E-08	2.99E-07	4.59E-08	4.38E-07	4.08E-09	2.28E-08	2.69E-09	2.96E-08
1234	577247.58	4194033.54	6.04E-07	1.88E-06	2.94E-07	0.00E+00	2.77E-06	9.41E-08	3.03E-07	4.64E-08	4.43E-07	4.13E-09	2.31E-08	2.72E-09	3.00E-08
1235	577256.68	4194032.73	6.10E-07	1.90E-06	2.97E-07	0.00E+00	2.80E-06	9.50E-08	3.06E-07	4.69E-08	4.47E-07	4.17E-09	2.33E-08	2.75E-09	3.02E-08
1236	577265.78	4194031.92	6.15E-07	1.91E-06	2.99E-07	0.00E+00	2.83E-06	9.58E-08	3.08E-07	4.73E-08	4.51E-07	4.21E-09	2.35E-08	2.77E-09	3.05E-08
1237	577045.66	4194109.89	4.70E-07	1.46E-06	2.29E-07	0.00E+00	2.16E-06	7.32E-08	2.36E-07	3.61E-08	3.45E-07	3.21E-09	1.80E-08	2.12E-09	2.33E-08
1238	577052.76	4194104.14	4.84E-07	1.51E-06	2.36E-07	0.00E+00	2.23E-06	7.55E-08	2.43E-07	3.72E-08	3.55E-07	3.31E-09	1.85E-08	2.18E-09	2.40E-08
1239	577059.86	4194098.38	4.97E-07	1.54E-06	2.42E-07	0.00E+00	2.28E-06	7.74E-08	2.49E-07	3.82E-08	3.64E-07	3.40E-09	1.90E-08	2.24E-09	2.46E-08
1240	577066.96	4194092.62	5.07E-07	1.57E-06	2.47E-07	0.00E+00	2.33E-06	7.89E-08	2.54E-07	3.89E-08	3.72E-07	3.46E-09	1.94E-08	2.28E-09	2.51E-08
1241	577074.07	4194086.87	5.14E-07	1.60E-06	2.50E-07	0.00E+00	2.36E-06	8.01E-08	2.58E-07	3.95E-08	3.77E-07	3.52E-09	1.97E-08	2.32E-09	2.55E-08

1242	577081.17	4194081.11	5.20E-07	1.61E-06	2.53E-07	0.00E+00	2.39E-06	8.10E-08	2.60E-07	3.99E-08	3.81E-07	3.55E-09	1.99E-08	2.34E-09	2.58E-08
1243	577088.27	4194075.36	5.22E-07	1.62E-06	2.54E-07	0.00E+00	2.40E-06	8.14E-08	2.62E-07	4.01E-08	3.83E-07	3.57E-09	2.00E-08	2.36E-09	2.59E-08
1244	577095.38	4194069.6	5.23E-07	1.62E-06	2.54E-07	0.00E+00	2.40E-06	8.14E-08	2.62E-07	4.02E-08	3.83E-07	3.57E-09	2.00E-08	2.36E-09	2.59E-08
1245	577102.48	4194063.84	5.20E-07	1.62E-06	2.53E-07	0.00E+00	2.39E-06	8.11E-08	2.61E-07	4.00E-08	3.82E-07	3.56E-09	1.99E-08	2.35E-09	2.58E-08
1246	577109.58	4194058.09	5.16E-07	1.60E-06	2.51E-07	0.00E+00	2.37E-06	8.04E-08	2.59E-07	3.97E-08	3.79E-07	3.53E-09	1.97E-08	2.33E-09	2.56E-08
1247	577116.69	4194052.33	5.10E-07	1.59E-06	2.48E-07	0.00E+00	2.34E-06	7.95E-08	2.56E-07	3.92E-08	3.74E-07	3.49E-09	1.95E-08	2.30E-09	2.53E-08
1248	577123.79	4194046.58	5.02E-07	1.56E-06	2.44E-07	0.00E+00	2.31E-06	7.82E-08	2.52E-07	3.86E-08	3.69E-07	3.43E-09	1.92E-08	2.26E-09	2.49E-08
1249	577130.89	4194040.82	4.93E-07	1.53E-06	2.40E-07	0.00E+00	2.26E-06	7.68E-08	2.47E-07	3.79E-08	3.62E-07	3.37E-09	1.89E-08	2.22E-09	2.45E-08
1250	577137.99	4194035.06	4.83E-07	1.50E-06	2.35E-07	0.00E+00	2.22E-06	7.52E-08	2.42E-07	3.71E-08	3.54E-07	3.30E-09	1.85E-08	2.18E-09	2.39E-08
1251	577147.05	4194032.91	4.86E-07	1.51E-06	2.37E-07	0.00E+00	2.23E-06	7.57E-08	2.43E-07	3.73E-08	3.57E-07	3.32E-09	1.86E-08	2.19E-09	2.41E-08
1252	577156.16	4194032.1	4.93E-07	1.53E-06	2.40E-07	0.00E+00	2.27E-06	7.68E-08	2.47E-07	3.79E-08	3.62E-07	3.37E-09	1.89E-08	2.22E-09	2.45E-08
1253	577165.27	4194031.28	5.00E-07	1.55E-06	2.43E-07	0.00E+00	2.30E-06	7.79E-08	2.51E-07	3.84E-08	3.67E-07	3.42E-09	1.91E-08	2.25E-09	2.48E-08
1254	577174.37	4194030.47	5.07E-07	1.57E-06	2.47E-07	0.00E+00	2.33E-06	7.89E-08	2.54E-07	3.89E-08	3.72E-07	3.46E-09	1.94E-08	2.28E-09	2.51E-08
1255	577183.48	4194029.66	5.13E-07	1.59E-06	2.50E-07	0.00E+00	2.36E-06	7.99E-08	2.57E-07	3.94E-08	3.76E-07	3.51E-09	1.96E-08	2.31E-09	2.54E-08
1256	577192.58	4194028.85	5.19E-07	1.61E-06	2.53E-07	0.00E+00	2.39E-06	8.09E-08	2.60E-07	3.99E-08	3.81E-07	3.55E-09	1.99E-08	2.34E-09	2.58E-08
1257	577201.69	4194028.03	5.26E-07	1.63E-06	2.56E-07	0.00E+00	2.42E-06	8.19E-08	2.64E-07	4.04E-08	3.86E-07	3.60E-09	2.01E-08	2.37E-09	2.61E-08
1258	577210.8	4194027.22	5.32E-07	1.66E-06	2.59E-07	0.00E+00	2.45E-06	8.30E-08	2.67E-07	4.09E-08	3.91E-07	3.64E-09	2.04E-08	2.40E-09	2.64E-08
1259	577219.9	4194026.41	5.39E-07	1.68E-06	2.62E-07	0.00E+00	2.48E-06	8.40E-08	2.70E-07	4.14E-08	3.96E-07	3.69E-09	2.06E-08	2.43E-09	2.67E-08
1260	577229.01	4194025.6	5.46E-07	1.70E-06	2.66E-07	0.00E+00	2.51E-06	8.50E-08	2.73E-07	4.19E-08	4.00E-07	3.73E-09	2.09E-08	2.46E-09	2.71E-08
1261	577238.12	4194024.78	5.52E-07	1.72E-06	2.69E-07	0.00E+00	2.54E-06	8.60E-08	2.77E-07	4.24E-08	4.05E-07	3.77E-09	2.11E-08	2.49E-09	2.74E-08
1262	577247.22	4194023.97	5.58E-07	1.73E-06	2.71E-07	0.00E+00	2.56E-06	8.69E-08	2.79E-07	4.29E-08	4.09E-07	3.81E-09	2.13E-08	2.51E-09	2.77E-08
1263	577256.33	4194023.16	5.63E-07	1.75E-06	2.74E-07	0.00E+00	2.59E-06	8.77E-08	2.82E-07	4.33E-08	4.13E-07	3.85E-09	2.15E-08	2.54E-09	2.79E-08
1264	577265.43	4194022.35	5.67E-07	1.76E-06	2.76E-07	0.00E+00	2.61E-06	8.84E-08	2.84E-07	4.36E-08	4.16E-07	3.88E-09	2.17E-08	2.56E-09	2.81E-08
1265	577037.37	4194104.29	4.36E-07	1.35E-06	2.12E-07	0.00E+00	2.00E-06	6.79E-08	2.18E-07	3.35E-08	3.20E-07	2.98E-09	1.67E-08	1.97E-09	2.16E-08
1266	577044.48	4194098.53	4.49E-07	1.40E-06	2.19E-07	0.00E+00	2.06E-06	7.00E-08	2.25E-07	3.45E-08	3.29E-07	3.07E-09	1.72E-08	2.02E-09	2.23E-08
1267	577051.59	4194092.78	4.60E-07	1.43E-06	2.24E-07	0.00E+00	2.12E-06	7.17E-08	2.31E-07	3.54E-08	3.38E-07	3.15E-09	1.76E-08	2.08E-09	2.28E-08
1268	577058.69	4194087.02	4.70E-07	1.46E-06	2.29E-07	0.00E+00	2.16E-06	7.32E-08	2.35E-07	3.61E-08	3.45E-07	3.21E-09	1.80E-08	2.12E-09	2.33E-08
1269	577065.8	4194081.26	4.77E-07	1.48E-06	2.32E-07	0.00E+00	2.19E-06	7.43E-08	2.39E-07	3.67E-08	3.50E-07	3.26E-09	1.83E-08	2.15E-09	2.37E-08
1270	577072.9	4194075.5	4.82E-07	1.50E-06	2.35E-07	0.00E+00	2.22E-06	7.52E-08	2.42E-07	3.71E-08	3.54E-07	3.30E-09	1.85E-08	2.18E-09	2.39E-08
1271	577080.01	4194069.74	4.86E-07	1.51E-06	2.36E-07	0.00E+00	2.23E-06	7.57E-08	2.43E-07	3.73E-08	3.56E-07	3.32E-09	1.86E-08	2.19E-09	2.41E-08
1272	577087.11	4194063.98	4.86E-07	1.51E-06	2.37E-07	0.00E+00	2.23E-06	7.58E-08	2.44E-07	3.74E-08	3.57E-07	3.33E-09	1.86E-08	2.19E-09	2.41E-08
1273	577094.22	4194058.23	4.85E-07	1.51E-06	2.36E-07	0.00E+00	2.23E-06	7.56E-08	2.43E-07	3.73E-08	3.56E-07	3.32E-09	1.86E-08	2.19E-09	2.41E-08
1274	577101.33	4194052.47	4.82E-07	1.50E-06	2.35E-07	0.00E+00	2.21E-06	7.51E-08	2.42E-07	3.70E-08	3.54E-07	3.30E-09	1.84E-08	2.17E-09	2.39E-08
1275	577108.43	4194046.71	4.77E-07	1.48E-06	2.32E-07	0.00E+00	2.19E-06	7.43E-08	2.39E-07	3.67E-08	3.50E-07	3.26E-09	1.83E-08	2.15E-09	2.37E-08
1276	577115.54	4194040.95	4.71E-07	1.46E-06	2.29E-07	0.00E+00	2.16E-06	7.33E-08	2.36E-07	3.62E-08	3.45E-07	3.22E-09	1.80E-08	2.12E-09	2.33E-08
1277	577122.64	4194035.19	4.63E-07	1.44E-06	2.25E-07	0.00E+00	2.13E-06	7.21E-08	2.32E-07	3.56E-08	3.40E-07	3.17E-09	1.77E-08	2.09E-09	2.30E-08
1278	577129.75	4194029.43	4.54E-07	1.41E-06	2.21E-07	0.00E+00	2.09E-06	7.07E-08	2.28E-07	3.49E-08	3.33E-07	3.10E-09	1.74E-08	2.05E-09	2.25E-08
1279	577137.07	4194024.2	4.46E-07	1.39E-06	2.17E-07	0.00E+00	2.05E-06	6.95E-08	2.24E-07	3.43E-08	3.27E-07	3.05E-09	1.71E-08	2.01E-09	2.21E-08
1280	577146.18	4194023.38	4.53E-07	1.41E-06	2.20E-07	0.00E+00	2.08E-06	7.06E-08	2.27E-07	3.48E-08	3.32E-07	3.10E-09	1.73E-08	2.04E-09	2.25E-08
1281	577155.29	4194022.57	4.59E-07	1.43E-06	2.24E-07	0.00E+00	2.11E-06	7.15E-08	2.30E-07	3.53E-08	3.37E-07	3.14E-09	1.76E-08	2.07E-09	2.28E-08
1282	577164.4	4194021.76	4.65E-07	1.45E-06	2.26E-07	0.00E+00	2.14E-06	7.24E-08	2.33E-07	3.57E-08	3.41E-07	3.18E-09	1.78E-08	2.10E-09	2.31E-08
1283	577173.51	4194020.94	4.71E-07	1.46E-06	2.29E-07	0.00E+00	2.16E-06	7.33E-08	2.36E-07	3.62E-08	3.45E-07	3.22E-09	1.80E-08	2.12E-09	2.33E-08
1284	577182.62	4194020.13	4.76E-07	1.48E-06	2.32E-07	0.00E+00	2.19E-06	7.42E-08	2.39E-07	3.66E-08	3.50E-07	3.26E-09	1.82E-08	2.15E-09	2.36E-08
1285	577191.73	4194019.32	4.82E-07	1.50E-06	2.35E-07	0.00E+00	2.21E-06	7.51E-08	2.42E-07	3.70E-08	3.54E-07	3.30E-09	1.84E-08	2.17E-09	2.39E-08
1286	577200.84	4194018.51	4.88E-07	1.52E-06	2.37E-07	0.00E+00	2.24E-06	7.60E-08	2.44E-07	3.75E-08	3.58E-07	3.34E-09	1.87E-08	2.20E-09	2.42E-08
1287	577209.95	4194017.69	4.94E-07	1.53E-06	2.40E-07	0.00E+00	2.27E-06	7.69E-08	2.47E-07	3.79E-08	3.62E-07	3.38E-09	1.89E-08	2.23E-09	2.45E-08
1288	577219.06	4194016.88	5.00E-07	1.55E-06	2.43E-07	0.00E+00	2.30E-06	7.79E-08	2.50E-07	3.84E-08	3.67E-07	3.42E-09	1.91E-08	2.25E-09	2.48E-08
1289	577228.17	4194016.07	5.06E-07	1.57E-06	2.46E-07	0.00E+00	2.32E-06	7.88E-08	2.53E-07	3.89E-08	3.71E-07	3.46E-09	1.93E-08	2.28E-09	2.51E-08
1290	577237.28	4194015.25	5.11E-07	1.59E-06	2.49E-07	0.00E+00	2.35E-06	7.96E-08	2.56E-07	3.93E-08	3.75E-07	3.50E-09	1.96E-08	2.31E-09	2.54E-08
1291	577246.39	4194014.44	5.16E-07	1.60E-06	2.51E-07	0.00E+00	2.37E-06	8.04E-08	2.59E-07	3.97E-08	3.79E-07	3.53E-09	1.98E-08	2.33E-09	2.56E-08
1292	577255.5	4194013.63	5.21E-07	1.62E-06	2.54E-07	0.00E+00	2.39E-06	8.11E-08	2.61E-07	4.00E-08	3.82E-07	3.56E-09	1.99E-08	2.35E-09	2.58E-08
1293	577264.61	4194012.82	5.25E-07	1.63E-06	2.56E-07	0.00E+00	2.41E-06	8.18E-08	2.63E-07	4.03E-08	3.85E-07	3.59E-09	2.01E-08	2.37E-09	2.60E-08
1294	577021.98	4194104.45	3.91E-07	1.22E-06	1.90E-07	0.00E+00	1.80E-06	6.10E-08	1.96E-07	3.01E-08	2.87E-07	2.68E-09	1.50E-08	1.76E-09	1.94E-08
1295	577029.09	4194098.69	4.05E-07	1.26E-06	1.97E-07	0.00E+00	1.86E-06	6.31E-08	2.03E-07	3.11E-08	2.97E-07	2.77E-09	1.55E-08	1.83E-09	2.01E-08
1296	577036.2	4194092.93	4.17E-07	1.30E-06	2.03E-07	0.00E+00	1.92E-06	6.50E-08	2.09E-07	3.20E-08	3.06E-07	2.85E-09	1.60E-08	1.88E-09	2.07E-08
1297	577043.31	4194087.17	4.28E-07	1.33E-06	2.08E-07	0.00E+00	1.96E-06	6.66E-08	2.14E-07	3.29E-08	3.14E-07	2.92E-09	1.64E-08	1.93E-09	2.12E-08
1298	577050.42	4194081.41	4.36E-07	1.36E-06	2.12E-07	0.00E+00	2.01E-06	6.80E-08	2.19E-07	3.35E-08	3.20E-07	2.99E-09	1.67E-08	1.97E-09	2.17E-08
1299	577057.53	4194075.65	4.44E-07	1.38E-06	2.16E-07	0.00E+00	2.04E-06	6.91E-08	2.22E-07	3.41E-08	3.26E-07	3.03E-09	1.70E-08	2.00E-09	2.20E-08
1300	577064.63	4194069.89	4.49E-07	1.40E-06	2.19E-07	0.00E+00	2.06E-06	6.99E-08	2.25E-07	3.45E-08	3.29E-07	3.07E-09	1.72E-08	2.02E-09	2.23E-08
1301	577071.74	4194064.13	4.52E-07	1.41E-06	2.20E-07	0.00E+00	2.08E-06	7.05E-08	2.27E-07	3.48E-08	3.32E-07	3.09E-09	1.73E-08	2.04E-09	2.24E-08
1302	577078.85	4194058.37	4.54E-07	1.41E-06	2.21E-07	0.00E+00	2.08E-06	7.07E-08	2.27E-07	3.49E-08	3.33E-07	3.10E-09	1.74E-08	2.05E-09	2.25E-08
1303	577085.96	4194052.61	4.53E-07	1.41E-06	2.21E-07	0.00E+00	2.08E-06	7.06E-08	2.27E-07	3.48E-08	3.32E-07	3.10E-09	1.73E-08	2.04E-09	2.25E-08
1304	577093.07	4194046.85	4.51E-07	1.40E-06	2.19E-07	0.00E+00	2.07E-06	7.02E-08	2.26E-07	3.47E-08	3.31E-07	3.08E-09	1.72E-08	2.03E-09	2.24E-08
1305	577100.18	4194041.09	4.47E-07	1.39E-06	2.18E-07	0.00E+00	2.05E-06	6.96E-08	2.24E-07	3.44E-08	3.28E-07	3.06E-09	1.71E-08	2.02E-09	2.22E-08
1306	577107.29	4194035.33	4.42E-07	1.37E-06	2.15E-07	0.00E+00	2.03E-06	6.88E-08	2.21E-07	3.40E-08	3.24E-07	3.02E-09	1.69E-08	1.99E-09	2.19E-08
1307	577114.39	4194029.57	4.35E-07	1.35E-06	2.12E-07	0.00E+00	2.00E-06	6.78E-08	2.18E-07	3.35E-08	3.19E-07	2.98E-09	1.67E-08	1.96E-09	2.16E-08
1308	577121.5	4194023.81	4.28E-07	1.33E-06	2.08E-07	0.00E+00	1.97E-06	6.66E-08	2.14E-07	3.29E-08	3.14E-07	2.92E-09	1.64E-08	1.93E-09	2.12E-08
1309	577128.61	4194018.05	4.19E-07	1.30E-06	2.04E-07	0.00E+00	1.93E-06	6.53E-08	2.10E-07	3.22E-08	3.08E-07	2.87E-09	1.60E-08	1.89E-09	2.08E-08
1310	577137.15	4194014.59	4.18E-07	1.30E-06	2.03E-07	0.00E+00	1.92E-06	6.51E-08	2.09E-07	3.21E-08	3.06E-07	2.86E-09	1.60E-08	1.88E-09	2.07E-08
1311	577146.26	4194013.77	4.23E-07	1.32E-06	2.06E-07	0.00E+00	1.95E-06	6.60E-08	2.12E-07	3.25E-08	3.11E-07	2.90E-09	1.62E-08	1.91E-09	2.10E-08
1312	577155.38	4194012.96	4.29E-07	1.33E-06	2.09E-07	0.00E+00	1.97E-06	6.68E-08	2.15E-07	3.30E-08	3.15E-07	2.93E-09	1.64E-08	1.93E-09	2.13E-08
1313	577164.49	4194012.15	4.34E-07	1.35E-06	2.11E-07	0.00E+00	1.99E-06	6.76E-08	2.17E-07	3.33E-08	3.18E-07	2.97E-09	1.66E-08	1.96E-09	2.15E-08
1314	577173.6	4194011.33	4.39E-07	1.36E-06	2.14E-07	0.00E+00	2.02E-06	6.84E-08	2.20E-07	3.37E-08	3.22E-07	3.00E-09	1.68E-08	1.98E-09	2.18E-08
1315	577182.72	4194010.52	4.44E-07	1.38E-06	2.16E-07	0.00E+00	2.04E-06	6.91E-08	2.22E-07	3.41E-08	3.26E-07	3.03E-09	1.70E-08	2.00E-09	2.20E-08
1316	577191.83	4194009.71	4.49E-07	1.40E-06	2.18E-07	0.00E+00	2.06E-06	6.99E-08	2.25E-07	3.45E-08	3.29E-07	3.07E-09	1.72E-08	2.02E-09	2.23E-08
1317	577200.94	4194008.89	4.54E-07	1.41E-06	2.21E-07	0.00E+00	2.09E-06	7.07E-08	2.28E-07	3.49E-08	3.33E-07	3.10E-09	1.74E-08	2.05E-09	2.25E-08
1318	577210.06	4194008.08	4.59E-07	1.43E-06	2.24E-07	0.00E+00	2.11E-06	7.16E-08	2.30E-07	3.53E-08	3.37E-07	3.14E-09	1.76E-08	2.07E-09	2.28E-08
1319	577219.17	4194007.27	4.65E-07	1.44E-06	2.26E-07	0.00E+00	2.14E-06	7.24E-08	2.33E-07	3.57E-08	3.41E-07	3.18E-09	1.78E-08	2.10E-09	2.31E-08
1320	577228.28	4194006.45	4.70E-07	1.46E-06	2.29E-07	0.00E+00	2.16E-06	7.33E-08	2.36E-07	3.61E-08	3.45E-07	3.22E-09	1.80E-08	2.12E-09	2.33E-08
1321	577237.4	4194005.64	4.75E-07	1.48E-06	2.31E-07	0.00E+00	2.18E-06	7.41E-08	2.38E-07	3.65E-08	3.49E-07	3.25E-09	1.82E-08	2.14E-09	2.36E-08
1322	577246.51	4194004.83	4.80E-07	1.49E-06	2.34E-07	0.00E+00	2.21E-06	7.48E-08	2.41E-07	3.69E-08	3.52E-07	3.28E-09	1.84E-08	2.16E-09	2.38E-08
1323	577255.62	4194004.01	4.84E-07	1.50E-06	2.36E-07	0.00E+00	2.22E-06	7.54E-08	2.43E-07	3.72E-08	3.55E-07	3.31E-09	1.85E-08	2.18E-09	2.40E-08
1324	577264.74	4194003.2	4.88E-07	1.52E-06	2.37E-07	0.00E+00	2.24E-06	7.60E-08	2.44E-07	3.75E-08	3.58E-07	3.33E-09	1.87E-08	2.20E-09	2.42E-08

1325	577273.85	4194002.39	4.90E-07	1.52E-06	2.39E-07	0.00E+00	2.25E-06	7.64E-08	2.46E-07	3.77E-08	3.60E-07	3.35E-09	1.88E-08	2.21E-09	2.43E-08
1326	577006.59	4194104.62	3.52E-07	1.09E-06	1.71E-07	0.00E+00	1.62E-06	5.48E-08	1.76E-07	2.70E-08	2.58E-07	2.40E-09	1.34E-08	1.59E-09	1.74E-08
1327	577013.7	4194098.86	3.65E-07	1.13E-06	1.78E-07	0.00E+00	1.68E-06	5.68E-08	1.83E-07	2.80E-08	2.68E-07	2.49E-09	1.39E-08	1.64E-09	1.81E-08
1328	577020.81	4194093.09	3.77E-07	1.17E-06	1.83E-07	0.00E+00	1.73E-06	5.87E-08	1.89E-07	2.90E-08	2.77E-07	2.58E-09	1.44E-08	1.70E-09	1.87E-08
1329	577027.92	4194087.33	3.88E-07	1.21E-06	1.89E-07	0.00E+00	1.78E-06	6.05E-08	1.94E-07	2.98E-08	2.85E-07	2.65E-09	1.48E-08	1.75E-09	1.92E-08
1330	577035.03	4194081.57	3.98E-07	1.24E-06	1.94E-07	0.00E+00	1.83E-06	6.20E-08	1.99E-07	3.06E-08	2.92E-07	2.72E-09	1.52E-08	1.79E-09	1.97E-08
1331	577042.14	4194075.81	4.06E-07	1.26E-06	1.98E-07	0.00E+00	1.87E-06	6.33E-08	2.04E-07	3.12E-08	2.98E-07	2.78E-09	1.55E-08	1.83E-09	2.02E-08
1332	577049.25	4194070.04	4.13E-07	1.28E-06	2.01E-07	0.00E+00	1.90E-06	6.44E-08	2.07E-07	3.18E-08	3.03E-07	2.83E-09	1.58E-08	1.86E-09	2.05E-08
1333	577056.36	4194064.28	4.18E-07	1.30E-06	2.04E-07	0.00E+00	1.92E-06	6.52E-08	2.10E-07	3.22E-08	3.07E-07	2.86E-09	1.60E-08	1.89E-09	2.08E-08
1334	577063.47	4194058.52	4.22E-07	1.31E-06	2.05E-07	0.00E+00	1.94E-06	6.57E-08	2.11E-07	3.24E-08	3.10E-07	2.89E-09	1.61E-08	1.90E-09	2.09E-08
1335	577070.59	4194052.76	4.24E-07	1.32E-06	2.06E-07	0.00E+00	1.95E-06	6.60E-08	2.12E-07	3.26E-08	3.11E-07	2.90E-09	1.62E-08	1.91E-09	2.10E-08
1336	577077.7	4194046.99	4.24E-07	1.32E-06	2.06E-07	0.00E+00	1.95E-06	6.60E-08	2.12E-07	3.26E-08	3.11E-07	2.90E-09	1.62E-08	1.91E-09	2.10E-08
1337	577084.81	4194041.23	4.22E-07	1.31E-06	2.06E-07	0.00E+00	1.94E-06	6.58E-08	2.12E-07	3.25E-08	3.10E-07	2.89E-09	1.62E-08	1.90E-09	2.09E-08
1338	577091.92	4194035.47	4.19E-07	1.30E-06	2.04E-07	0.00E+00	1.93E-06	6.53E-08	2.10E-07	3.22E-08	3.08E-07	2.87E-09	1.60E-08	1.89E-09	2.08E-08
1339	577099.03	4194029.71	4.15E-07	1.29E-06	2.02E-07	0.00E+00	1.91E-06	6.47E-08	2.08E-07	3.19E-08	3.05E-07	2.84E-09	1.59E-08	1.87E-09	2.06E-08
1340	577106.14	4194023.94	4.10E-07	1.27E-06	1.99E-07	0.00E+00	1.88E-06	6.38E-08	2.05E-07	3.15E-08	3.01E-07	2.80E-09	1.57E-08	1.85E-09	2.03E-08
1341	577113.25	4194018.18	4.03E-07	1.25E-06	1.96E-07	0.00E+00	1.85E-06	6.28E-08	2.02E-07	3.10E-08	2.96E-07	2.76E-09	1.54E-08	1.82E-09	2.00E-08
1342	577120.36	4194012.42	3.96E-07	1.23E-06	1.93E-07	0.00E+00	1.82E-06	6.17E-08	1.98E-07	3.04E-08	2.90E-07	2.71E-09	1.51E-08	1.79E-09	1.96E-08
1343	577127.47	4194006.66	3.88E-07	1.21E-06	1.89E-07	0.00E+00	1.78E-06	6.04E-08	1.94E-07	2.98E-08	2.85E-07	2.65E-09	1.48E-08	1.75E-09	1.92E-08
1344	577136.75	4194005.02	3.91E-07	1.22E-06	1.90E-07	0.00E+00	1.80E-06	6.10E-08	1.96E-07	3.01E-08	2.87E-07	2.68E-09	1.50E-08	1.76E-09	1.94E-08
1345	577145.87	4194004.2	3.96E-07	1.23E-06	1.93E-07	0.00E+00	1.82E-06	6.17E-08	1.99E-07	3.05E-08	2.91E-07	2.71E-09	1.52E-08	1.79E-09	1.97E-08
1346	577154.99	4194003.39	4.01E-07	1.25E-06	1.95E-07	0.00E+00	1.84E-06	6.25E-08	2.01E-07	3.08E-08	2.94E-07	2.74E-09	1.53E-08	1.81E-09	1.99E-08
1347	577164.1	4194002.58	4.05E-07	1.26E-06	1.97E-07	0.00E+00	1.86E-06	6.31E-08	2.03E-07	3.11E-08	2.97E-07	2.77E-09	1.55E-08	1.83E-09	2.01E-08
1348	577173.22	4194001.76	4.10E-07	1.27E-06	1.99E-07	0.00E+00	1.88E-06	6.38E-08	2.05E-07	3.15E-08	3.01E-07	2.80E-09	1.57E-08	1.85E-09	2.03E-08
1349	577182.34	4194000.95	4.14E-07	1.29E-06	2.02E-07	0.00E+00	1.90E-06	6.45E-08	2.07E-07	3.18E-08	3.04E-07	2.83E-09	1.58E-08	1.87E-09	2.05E-08
1350	577191.45	4194000.14	4.18E-07	1.30E-06	2.04E-07	0.00E+00	1.92E-06	6.52E-08	2.10E-07	3.22E-08	3.07E-07	2.86E-09	1.60E-08	1.89E-09	2.08E-08
1351	577200.57	4193999.32	4.23E-07	1.32E-06	2.06E-07	0.00E+00	1.94E-06	6.59E-08	2.12E-07	3.25E-08	3.11E-07	2.89E-09	1.62E-08	1.91E-09	2.10E-08
1352	577209.69	4193998.51	4.28E-07	1.33E-06	2.08E-07	0.00E+00	1.97E-06	6.67E-08	2.15E-07	3.29E-08	3.14E-07	2.93E-09	1.64E-08	1.93E-09	2.12E-08
1353	577218.8	4193997.7	4.33E-07	1.35E-06	2.11E-07	0.00E+00	1.99E-06	6.75E-08	2.17E-07	3.33E-08	3.18E-07	2.96E-09	1.66E-08	1.95E-09	2.15E-08
1354	577227.92	4193996.88	4.38E-07	1.36E-06	2.13E-07	0.00E+00	2.01E-06	6.83E-08	2.20E-07	3.37E-08	3.21E-07	3.00E-09	1.68E-08	1.98E-09	2.17E-08
1355	577237.04	4193996.07	4.43E-07	1.38E-06	2.15E-07	0.00E+00	2.03E-06	6.90E-08	2.22E-07	3.40E-08	3.25E-07	3.03E-09	1.69E-08	2.00E-09	2.20E-08
1356	577246.15	4193995.26	4.47E-07	1.39E-06	2.18E-07	0.00E+00	2.05E-06	6.96E-08	2.24E-07	3.43E-08	3.28E-07	3.06E-09	1.71E-08	2.02E-09	2.22E-08
1357	577255.27	4193994.44	4.51E-07	1.40E-06	2.19E-07	0.00E+00	2.07E-06	7.02E-08	2.26E-07	3.46E-08	3.31E-07	3.08E-09	1.72E-08	2.03E-09	2.23E-08
1358	577264.39	4193993.63	4.54E-07	1.41E-06	2.21E-07	0.00E+00	2.09E-06	7.07E-08	2.27E-07	3.49E-08	3.33E-07	3.10E-09	1.74E-08	2.05E-09	2.25E-08
1359	577273.5	4193992.82	4.56E-07	1.42E-06	2.22E-07	0.00E+00	2.10E-06	7.11E-08	2.29E-07	3.51E-08	3.35E-07	3.12E-09	1.75E-08	2.06E-09	2.26E-08
1360	576998.3	4194099.02	3.28E-07	1.02E-06	1.60E-07	0.00E+00	1.51E-06	5.12E-08	1.65E-07	2.52E-08	2.41E-07	2.25E-09	1.26E-08	1.48E-09	1.63E-08
1361	577005.41	4194093.26	3.41E-07	1.06E-06	1.66E-07	0.00E+00	1.57E-06	5.31E-08	1.71E-07	2.62E-08	2.50E-07	2.33E-09	1.30E-08	1.54E-09	1.69E-08
1362	577012.52	4194087.5	3.52E-07	1.09E-06	1.71E-07	0.00E+00	1.62E-06	5.48E-08	1.76E-07	2.70E-08	2.58E-07	2.41E-09	1.35E-08	1.59E-09	1.74E-08
1363	577019.64	4194081.73	3.62E-07	1.13E-06	1.76E-07	0.00E+00	1.66E-06	5.64E-08	1.81E-07	2.78E-08	2.66E-07	2.48E-09	1.38E-08	1.63E-09	1.80E-08
1364	577026.75	4194075.97	3.71E-07	1.15E-06	1.81E-07	0.00E+00	1.71E-06	5.78E-08	1.86E-07	2.85E-08	2.72E-07	2.54E-09	1.42E-08	1.67E-09	1.84E-08
1365	577033.86	4194070.2	3.79E-07	1.18E-06	1.85E-07	0.00E+00	1.74E-06	5.91E-08	1.90E-07	2.91E-08	2.78E-07	2.59E-09	1.45E-08	1.71E-09	1.88E-08
1366	577040.98	4194064.44	3.86E-07	1.20E-06	1.88E-07	0.00E+00	1.77E-06	6.01E-08	1.93E-07	2.96E-08	2.83E-07	2.64E-09	1.48E-08	1.74E-09	1.91E-08
1367	577048.09	4194058.67	3.91E-07	1.21E-06	1.90E-07	0.00E+00	1.79E-06	6.09E-08	1.96E-07	3.00E-08	2.87E-07	2.67E-09	1.49E-08	1.76E-09	1.94E-08
1368	577055.2	4194052.91	3.94E-07	1.23E-06	1.92E-07	0.00E+00	1.81E-06	6.14E-08	1.98E-07	3.03E-08	2.89E-07	2.70E-09	1.51E-08	1.78E-09	1.96E-08
1369	577062.32	4194047.14	3.96E-07	1.23E-06	1.93E-07	0.00E+00	1.82E-06	6.18E-08	1.99E-07	3.05E-08	2.91E-07	2.71E-09	1.52E-08	1.79E-09	1.97E-08
1370	577069.43	4194041.38	3.97E-07	1.23E-06	1.93E-07	0.00E+00	1.82E-06	6.19E-08	1.99E-07	3.05E-08	2.91E-07	2.72E-09	1.52E-08	1.79E-09	1.97E-08
1371	577076.54	4194035.62	3.96E-07	1.23E-06	1.93E-07	0.00E+00	1.82E-06	6.17E-08	1.99E-07	3.05E-08	2.91E-07	2.71E-09	1.52E-08	1.79E-09	1.97E-08
1372	577083.66	4194029.85	3.94E-07	1.22E-06	1.92E-07	0.00E+00	1.81E-06	6.14E-08	1.97E-07	3.03E-08	2.89E-07	2.69E-09	1.51E-08	1.78E-09	1.95E-08
1373	577090.77	4194024.09	3.91E-07	1.21E-06	1.90E-07	0.00E+00	1.79E-06	6.09E-08	1.96E-07	3.00E-08	2.87E-07	2.67E-09	1.49E-08	1.76E-09	1.94E-08
1374	577097.88	4194018.32	3.86E-07	1.20E-06	1.88E-07	0.00E+00	1.77E-06	6.02E-08	1.93E-07	2.97E-08	2.83E-07	2.64E-09	1.48E-08	1.74E-09	1.92E-08
1375	577105	4194012.56	3.81E-07	1.18E-06	1.85E-07	0.00E+00	1.75E-06	5.93E-08	1.91E-07	2.93E-08	2.79E-07	2.60E-09	1.46E-08	1.72E-09	1.89E-08
1376	577112.11	4194006.79	3.74E-07	1.16E-06	1.82E-07	0.00E+00	1.72E-06	5.83E-08	1.88E-07	2.88E-08	2.75E-07	2.56E-09	1.43E-08	1.69E-09	1.86E-08
1377	577119.23	4194001.03	3.67E-07	1.14E-06	1.79E-07	0.00E+00	1.69E-06	5.72E-08	1.84E-07	2.82E-08	2.69E-07	2.51E-09	1.40E-08	1.66E-09	1.82E-08
1378	577127.24	4193996.26	3.62E-07	1.13E-06	1.76E-07	0.00E+00	1.67E-06	5.65E-08	1.82E-07	2.79E-08	2.66E-07	2.48E-09	1.39E-08	1.63E-09	1.80E-08
1379	577136.36	4193995.45	3.67E-07	1.14E-06	1.79E-07	0.00E+00	1.69E-06	5.72E-08	1.84E-07	2.82E-08	2.69E-07	2.51E-09	1.40E-08	1.66E-09	1.82E-08
1380	577145.48	4193994.64	3.71E-07	1.15E-06	1.81E-07	0.00E+00	1.71E-06	5.79E-08	1.86E-07	2.85E-08	2.73E-07	2.54E-09	1.42E-08	1.67E-09	1.84E-08
1381	577154.6	4193993.82	3.75E-07	1.17E-06	1.83E-07	0.00E+00	1.72E-06	5.85E-08	1.88E-07	2.89E-08	2.75E-07	2.57E-09	1.44E-08	1.69E-09	1.86E-08
1382	577163.72	4193993.01	3.79E-07	1.18E-06	1.85E-07	0.00E+00	1.74E-06	5.91E-08	1.90E-07	2.91E-08	2.78E-07	2.59E-09	1.45E-08	1.71E-09	1.88E-08
1383	577172.84	4193992.19	3.83E-07	1.19E-06	1.86E-07	0.00E+00	1.76E-06	5.97E-08	1.92E-07	2.94E-08	2.81E-07	2.62E-09	1.47E-08	1.73E-09	1.90E-08
1384	577181.96	4193991.38	3.87E-07	1.20E-06	1.88E-07	0.00E+00	1.78E-06	6.03E-08	1.94E-07	2.97E-08	2.84E-07	2.65E-09	1.48E-08	1.75E-09	1.92E-08
1385	577191.08	4193990.57	3.91E-07	1.22E-06	1.90E-07	0.00E+00	1.80E-06	6.09E-08	1.96E-07	3.01E-08	2.87E-07	2.67E-09	1.50E-08	1.76E-09	1.94E-08
1386	577200.2	4193989.75	3.95E-07	1.23E-06	1.92E-07	0.00E+00	1.82E-06	6.16E-08	1.98E-07	3.04E-08	2.90E-07	2.70E-09	1.51E-08	1.78E-09	1.96E-08
1387	577209.32	4193988.94	4.00E-07	1.24E-06	1.95E-07	0.00E+00	1.84E-06	6.23E-08	2.00E-07	3.07E-08	2.93E-07	2.73E-09	1.53E-08	1.80E-09	1.98E-08
1388	577218.44	4193988.13	4.04E-07	1.26E-06	1.97E-07	0.00E+00	1.86E-06	6.30E-08	2.03E-07	3.11E-08	2.97E-07	2.77E-09	1.55E-08	1.82E-09	2.01E-08
1389	577227.56	4193987.31	4.09E-07	1.27E-06	1.99E-07	0.00E+00	1.88E-06	6.37E-08	2.05E-07	3.14E-08	3.00E-07	2.80E-09	1.56E-08	1.84E-09	2.03E-08
1390	577236.68	4193986.5	4.13E-07	1.28E-06	2.01E-07	0.00E+00	1.90E-06	6.44E-08	2.07E-07	3.18E-08	3.03E-07	2.83E-09	1.58E-08	1.86E-09	2.05E-08
1391	577245.8	4193985.69	4.17E-07	1.30E-06	2.03E-07	0.00E+00	1.92E-06	6.50E-08	2.09E-07	3.21E-08	3.06E-07	2.85E-09	1.60E-08	1.88E-09	2.07E-08
1392	577254.92	4193984.87	4.20E-07	1.31E-06	2.05E-07	0.00E+00	1.93E-06	6.55E-08	2.11E-07	3.23E-08	3.08E-07	2.87E-09	1.61E-08	1.90E-09	2.09E-08
1393	577264.04	4193984.06	4.23E-07	1.32E-06	2.06E-07	0.00E+00	1.94E-06	6.59E-08	2.12E-07	3.25E-08	3.11E-07	2.89E-09	1.62E-08	1.91E-09	2.10E-08
1394	577273.16	4193983.24	4.25E-07	1.32E-06	2.07E-07	0.00E+00	1.95E-06	6.63E-08	2.13E-07	3.27E-08	3.12E-07	2.91E-09	1.63E-08	1.92E-09	2.11E-08
1395	576990.01	4194093.43	3.08E-07	9.56E-07	1.50E-07	0.00E+00	1.41E-06	4.79E-08	1.54E-07	2.36E-08	2.26E-07	2.10E-09	1.18E-08	1.39E-09	1.53E-08
1396	576997.12	4194087.66	3.19E-07	9.91E-07	1.55E-07	0.00E+00	1.47E-06	4.97E-08	1.60E-07	2.45E-08	2.34E-07	2.18E-09	1.22E-08	1.44E-09	1.58E-08
1397	577004.24	4194081.9	3.29E-07	1.02E-06	1.60E-07	0.00E+00	1.51E-06	5.13E-08	1.65E-07	2.53E-08	2.42E-07	2.25E-09	1.26E-08	1.48E-09	1.63E-08
1398	577011.36	4194076.13	3.38E-07	1.05E-06	1.65E-07	0.00E+00	1.56E-06	5.27E-08	1.70E-07	2.60E-08	2.48E-07	2.31E-09	1.29E-08	1.53E-09	1.68E-08
1399	577018.47	4194070.36	3.47E-07	1.08E-06	1.69E-07	0.00E+00	1.59E-06	5.41E-08	1.74E-07	2.67E-08	2.55E-07	2.37E-09	1.33E-08	1.56E-09	1.72E-08
1400	577025.59	4194064.6	3.54E-07	1.10E-06	1.73E-07	0.00E+00	1.63E-06	5.52E-08	1.78E-07	2.72E-08	2.60E-07	2.42E-09	1.36E-08	1.60E-09	1.76E-08
1401	577032.7	4194058.83	3.61E-07	1.12E-06	1.76E-07	0.00E+00	1.66E-06	5.62E-08	1.81E-07	2.77E-08	2.65E-07	2.47E-09	1.38E-08	1.63E-09	1.79E-08
1402	577039.82	4194053.07	3.65E-07	1.14E-06	1.78E-07	0.00E+00	1.68E-06	5.69E-08	1.83E-07	2.81E-08	2.68E-07	2.50E-09	1.40E-08	1.65E-09	1.81E-08
1403	577046.93	4194047.3	3.69E-07	1.15E-06	1.80E-07	0.00E+00	1.70E-06	5.75E-08	1.85E-07	2.84E-08	2.71E-07	2.52E-09	1.41E-08	1.66E-09	1.83E-08
1404	577054.05	4194041.53	3.71E-07	1.15E-06	1.81E-07	0.00E+00	1.71E-06	5.79E-08	1.86E-07	2.85E-08	2.73E-07	2.54E-09	1.42E-08	1.67E-09	1.84E-08
1405	577061.16	4194035.77	3.72E-07	1.16E-06	1.81E-07	0.00E+00	1.71E-06	5.80E-08	1.87E-07	2.86E-08	2.73E-07	2.55E-09	1.42E-08	1.68E-09	1.85E-08
1406	577068.28	4194030	3.72E-07	1.16E-06	1.81E-07	0.00E+00	1.71E-06	5.80E-08	1.86E-07	2.86E-08	2.73E-07	2.54E-09	1.42E-08	1.68E-09	1.85E-08
1407	577075.4	4194024.23	3.71E-07	1.15E-06	1.80E-07	0.00E+00	1.70E-06	5.77E-08	1.86E-07	2.85E-08	2.72E-07	2.53E-09	1.42E-08	1.67E-09	1.84E-08

1408	577082.51	4194018.47	3.68E-07	1.14E-06	1.79E-07	0.00E+00	1.69E-06	5.73E-08	1.84E-07	2.83E-08	2.70E-07	2.52E-09	1.41E-08	1.66E-09	1.82E-08
1409	577089.63	4194012.7	3.64E-07	1.13E-06	1.77E-07	0.00E+00	1.67E-06	5.67E-08	1.83E-07	2.80E-08	2.67E-07	2.49E-09	1.39E-08	1.64E-09	1.81E-08
1410	577096.74	4194006.94	3.60E-07	1.12E-06	1.75E-07	0.00E+00	1.65E-06	5.60E-08	1.80E-07	2.76E-08	2.64E-07	2.46E-09	1.38E-08	1.62E-09	1.78E-08
1411	577103.86	4194001.17	3.54E-07	1.10E-06	1.72E-07	0.00E+00	1.63E-06	5.52E-08	1.77E-07	2.72E-08	2.60E-07	2.42E-09	1.35E-08	1.60E-09	1.76E-08
1412	577110.97	4193995.4	3.48E-07	1.08E-06	1.69E-07	0.00E+00	1.60E-06	5.42E-08	1.74E-07	2.67E-08	2.55E-07	2.38E-09	1.33E-08	1.57E-09	1.73E-08
1413	577118.09	4193989.64	3.41E-07	1.06E-06	1.66E-07	0.00E+00	1.57E-06	5.32E-08	1.71E-07	2.62E-08	2.50E-07	2.33E-09	1.31E-08	1.54E-09	1.69E-08
1414	577126.85	4193986.7	3.41E-07	1.06E-06	1.66E-07	0.00E+00	1.57E-06	5.31E-08	1.71E-07	2.62E-08	2.50E-07	2.33E-09	1.30E-08	1.54E-09	1.69E-08
1415	577135.97	4193985.88	3.45E-07	1.07E-06	1.68E-07	0.00E+00	1.58E-06	5.37E-08	1.73E-07	2.65E-08	2.53E-07	2.36E-09	1.32E-08	1.56E-09	1.71E-08
1416	577145.09	4193985.07	3.49E-07	1.08E-06	1.70E-07	0.00E+00	1.60E-06	5.43E-08	1.75E-07	2.68E-08	2.56E-07	2.38E-09	1.33E-08	1.57E-09	1.73E-08
1417	577154.21	4193984.25	3.52E-07	1.09E-06	1.71E-07	0.00E+00	1.62E-06	5.49E-08	1.76E-07	2.71E-08	2.58E-07	2.41E-09	1.35E-08	1.59E-09	1.75E-08
1418	577163.34	4193983.44	3.56E-07	1.11E-06	1.73E-07	0.00E+00	1.63E-06	5.54E-08	1.78E-07	2.73E-08	2.61E-07	2.43E-09	1.36E-08	1.60E-09	1.76E-08
1419	577172.46	4193982.63	3.59E-07	1.12E-06	1.75E-07	0.00E+00	1.65E-06	5.59E-08	1.80E-07	2.76E-08	2.63E-07	2.45E-09	1.37E-08	1.62E-09	1.78E-08
1420	577181.58	4193981.81	3.62E-07	1.13E-06	1.76E-07	0.00E+00	1.67E-06	5.65E-08	1.82E-07	2.79E-08	2.66E-07	2.48E-09	1.39E-08	1.63E-09	1.80E-08
1421	577190.7	4193981	3.66E-07	1.14E-06	1.78E-07	0.00E+00	1.68E-06	5.70E-08	1.83E-07	2.81E-08	2.69E-07	2.50E-09	1.40E-08	1.65E-09	1.82E-08
1422	577199.83	4193980.18	3.70E-07	1.15E-06	1.80E-07	0.00E+00	1.70E-06	5.77E-08	1.85E-07	2.84E-08	2.72E-07	2.53E-09	1.42E-08	1.67E-09	1.84E-08
1423	577208.95	4193979.37	3.74E-07	1.16E-06	1.82E-07	0.00E+00	1.72E-06	5.83E-08	1.88E-07	2.88E-08	2.75E-07	2.56E-09	1.43E-08	1.69E-09	1.86E-08
1424	577218.07	4193978.56	3.78E-07	1.18E-06	1.84E-07	0.00E+00	1.74E-06	5.90E-08	1.90E-07	2.91E-08	2.78E-07	2.59E-09	1.45E-08	1.71E-09	1.88E-08
1425	577227.19	4193977.74	3.83E-07	1.19E-06	1.86E-07	0.00E+00	1.76E-06	5.96E-08	1.92E-07	2.94E-08	2.81E-07	2.62E-09	1.46E-08	1.72E-09	1.90E-08
1426	577236.32	4193976.93	3.86E-07	1.20E-06	1.88E-07	0.00E+00	1.78E-06	6.02E-08	1.94E-07	2.97E-08	2.84E-07	2.64E-09	1.48E-08	1.74E-09	1.92E-08
1427	577245.44	4193976.11	3.90E-07	1.21E-06	1.90E-07	0.00E+00	1.79E-06	6.07E-08	1.95E-07	3.00E-08	2.86E-07	2.67E-09	1.49E-08	1.76E-09	1.93E-08
1428	577254.56	4193975.3	3.93E-07	1.22E-06	1.91E-07	0.00E+00	1.81E-06	6.12E-08	1.97E-07	3.02E-08	2.88E-07	2.69E-09	1.50E-08	1.77E-09	1.95E-08
1429	577263.68	4193974.49	3.96E-07	1.23E-06	1.93E-07	0.00E+00	1.82E-06	6.16E-08	1.98E-07	3.04E-08	2.90E-07	2.71E-09	1.51E-08	1.78E-09	1.96E-08
1430	577272.81	4193973.67	3.97E-07	1.24E-06	1.93E-07	0.00E+00	1.83E-06	6.19E-08	1.99E-07	3.05E-08	2.92E-07	2.72E-09	1.52E-08	1.79E-09	1.97E-08
1431	576981.72	4194087.83	2.89E-07	8.97E-07	1.41E-07	0.00E+00	1.33E-06	4.50E-08	1.45E-07	2.22E-08	2.12E-07	1.97E-09	1.10E-08	1.30E-09	1.43E-08
1432	576988.84	4194082.07	2.99E-07	9.30E-07	1.46E-07	0.00E+00	1.37E-06	4.66E-08	1.50E-07	2.30E-08	2.19E-07	2.05E-09	1.14E-08	1.35E-09	1.48E-08
1433	576995.96	4194076.3	3.09E-07	9.59E-07	1.50E-07	0.00E+00	1.42E-06	4.81E-08	1.55E-07	2.37E-08	2.26E-07	2.11E-09	1.18E-08	1.39E-09	1.53E-08
1434	577003.07	4194070.53	3.17E-07	9.86E-07	1.54E-07	0.00E+00	1.46E-06	4.94E-08	1.59E-07	2.44E-08	2.33E-07	2.17E-09	1.21E-08	1.43E-09	1.57E-08
1435	577010.19	4194064.76	3.25E-07	1.01E-06	1.58E-07	0.00E+00	1.49E-06	5.07E-08	1.63E-07	2.50E-08	2.39E-07	2.22E-09	1.24E-08	1.47E-09	1.61E-08
1436	577017.31	4194059	3.32E-07	1.03E-06	1.62E-07	0.00E+00	1.53E-06	5.17E-08	1.66E-07	2.55E-08	2.44E-07	2.27E-09	1.27E-08	1.50E-09	1.65E-08
1437	577024.43	4194053.23	3.38E-07	1.05E-06	1.65E-07	0.00E+00	1.55E-06	5.27E-08	1.69E-07	2.60E-08	2.48E-07	2.31E-09	1.29E-08	1.52E-09	1.68E-08
1438	577031.54	4194047.46	3.43E-07	1.06E-06	1.67E-07	0.00E+00	1.57E-06	5.34E-08	1.72E-07	2.63E-08	2.51E-07	2.34E-09	1.31E-08	1.55E-09	1.70E-08
1439	577038.66	4194041.69	3.46E-07	1.08E-06	1.68E-07	0.00E+00	1.59E-06	5.39E-08	1.73E-07	2.66E-08	2.54E-07	2.37E-09	1.32E-08	1.56E-09	1.72E-08
1440	577045.78	4194035.92	3.48E-07	1.08E-06	1.70E-07	0.00E+00	1.60E-06	5.43E-08	1.75E-07	2.68E-08	2.56E-07	2.38E-09	1.33E-08	1.57E-09	1.73E-08
1441	577052.9	4194030.16	3.50E-07	1.09E-06	1.70E-07	0.00E+00	1.61E-06	5.45E-08	1.75E-07	2.69E-08	2.57E-07	2.39E-09	1.34E-08	1.58E-09	1.74E-08
1442	577060.01	4194024.39	3.50E-07	1.09E-06	1.70E-07	0.00E+00	1.61E-06	5.45E-08	1.75E-07	2.69E-08	2.57E-07	2.39E-09	1.34E-08	1.58E-09	1.74E-08
1443	577067.13	4194018.62	3.49E-07	1.08E-06	1.70E-07	0.00E+00	1.60E-06	5.44E-08	1.75E-07	2.68E-08	2.56E-07	2.39E-09	1.33E-08	1.57E-09	1.73E-08
1444	577074.25	4194012.85	3.47E-07	1.08E-06	1.69E-07	0.00E+00	1.59E-06	5.40E-08	1.74E-07	2.67E-08	2.54E-07	2.37E-09	1.33E-08	1.56E-09	1.72E-08
1445	577081.37	4194007.08	3.44E-07	1.07E-06	1.67E-07	0.00E+00	1.58E-06	5.36E-08	1.72E-07	2.64E-08	2.52E-07	2.35E-09	1.32E-08	1.55E-09	1.71E-08
1446	577088.48	4194001.32	3.40E-07	1.06E-06	1.66E-07	0.00E+00	1.56E-06	5.30E-08	1.70E-07	2.61E-08	2.49E-07	2.33E-09	1.30E-08	1.53E-09	1.69E-08
1447	577095.6	4193995.55	3.35E-07	1.04E-06	1.63E-07	0.00E+00	1.54E-06	5.23E-08	1.68E-07	2.58E-08	2.46E-07	2.29E-09	1.28E-08	1.51E-09	1.66E-08
1448	577102.72	4193989.78	3.30E-07	1.03E-06	1.61E-07	0.00E+00	1.52E-06	5.14E-08	1.65E-07	2.54E-08	2.42E-07	2.26E-09	1.26E-08	1.49E-09	1.64E-08
1449	577109.84	4193984.01	3.24E-07	1.01E-06	1.58E-07	0.00E+00	1.49E-06	5.05E-08	1.62E-07	2.49E-08	2.38E-07	2.22E-09	1.24E-08	1.46E-09	1.61E-08
1450	577116.96	4193978.25	3.18E-07	9.87E-07	1.55E-07	0.00E+00	1.46E-06	4.95E-08	1.59E-07	2.44E-08	2.33E-07	2.17E-09	1.22E-08	1.43E-09	1.58E-08
1451	577125.97	4193977.17	3.21E-07	9.97E-07	1.56E-07	0.00E+00	1.47E-06	5.00E-08	1.61E-07	2.47E-08	2.35E-07	2.19E-09	1.23E-08	1.45E-09	1.59E-08
1452	577135.1	4193976.36	3.24E-07	1.01E-06	1.58E-07	0.00E+00	1.49E-06	5.05E-08	1.63E-07	2.49E-08	2.38E-07	2.22E-09	1.24E-08	1.46E-09	1.61E-08
1453	577144.22	4193975.54	3.28E-07	1.02E-06	1.59E-07	0.00E+00	1.51E-06	5.10E-08	1.64E-07	2.52E-08	2.40E-07	2.24E-09	1.25E-08	1.48E-09	1.62E-08
1454	577153.35	4193974.73	3.31E-07	1.03E-06	1.61E-07	0.00E+00	1.52E-06	5.15E-08	1.66E-07	2.54E-08	2.43E-07	2.26E-09	1.26E-08	1.49E-09	1.64E-08
1455	577162.47	4193973.91	3.34E-07	1.04E-06	1.62E-07	0.00E+00	1.53E-06	5.20E-08	1.67E-07	2.56E-08	2.45E-07	2.28E-09	1.28E-08	1.50E-09	1.65E-08
1456	577171.6	4193973.1	3.37E-07	1.05E-06	1.64E-07	0.00E+00	1.55E-06	5.25E-08	1.69E-07	2.59E-08	2.47E-07	2.30E-09	1.29E-08	1.52E-09	1.67E-08
1457	577180.72	4193972.29	3.40E-07	1.06E-06	1.65E-07	0.00E+00	1.56E-06	5.30E-08	1.70E-07	2.61E-08	2.49E-07	2.32E-09	1.30E-08	1.53E-09	1.69E-08
1458	577189.85	4193971.47	3.43E-07	1.07E-06	1.67E-07	0.00E+00	1.58E-06	5.35E-08	1.72E-07	2.64E-08	2.52E-07	2.35E-09	1.31E-08	1.55E-09	1.70E-08
1459	577198.97	4193970.66	3.47E-07	1.08E-06	1.69E-07	0.00E+00	1.59E-06	5.41E-08	1.74E-07	2.67E-08	2.55E-07	2.37E-09	1.33E-08	1.56E-09	1.72E-08
1460	577208.1	4193969.84	3.51E-07	1.09E-06	1.71E-07	0.00E+00	1.61E-06	5.46E-08	1.76E-07	2.70E-08	2.57E-07	2.40E-09	1.34E-08	1.58E-09	1.74E-08
1461	577217.22	4193969.03	3.54E-07	1.10E-06	1.73E-07	0.00E+00	1.63E-06	5.52E-08	1.78E-07	2.72E-08	2.60E-07	2.42E-09	1.36E-08	1.60E-09	1.76E-08
1462	577226.35	4193968.21	3.58E-07	1.11E-06	1.74E-07	0.00E+00	1.65E-06	5.58E-08	1.80E-07	2.75E-08	2.63E-07	2.45E-09	1.37E-08	1.62E-09	1.78E-08
1463	577235.47	4193967.4	3.62E-07	1.12E-06	1.76E-07	0.00E+00	1.66E-06	5.64E-08	1.81E-07	2.78E-08	2.66E-07	2.47E-09	1.38E-08	1.63E-09	1.79E-08
1464	577244.6	4193966.59	3.65E-07	1.13E-06	1.78E-07	0.00E+00	1.68E-06	5.69E-08	1.83E-07	2.81E-08	2.68E-07	2.50E-09	1.40E-08	1.65E-09	1.81E-08
1465	577253.72	4193965.77	3.68E-07	1.14E-06	1.79E-07	0.00E+00	1.69E-06	5.73E-08	1.84E-07	2.83E-08	2.70E-07	2.52E-09	1.41E-08	1.66E-09	1.83E-08
1466	577262.85	4193964.96	3.70E-07	1.15E-06	1.80E-07	0.00E+00	1.70E-06	5.77E-08	1.86E-07	2.85E-08	2.72E-07	2.53E-09	1.42E-08	1.67E-09	1.84E-08
1467	577271.98	4193964.14	3.72E-07	1.16E-06	1.81E-07	0.00E+00	1.71E-06	5.80E-08	1.86E-07	2.86E-08	2.73E-07	2.54E-09	1.42E-08	1.68E-09	1.85E-08
1468	577281.1	4193963.33	3.73E-07	1.16E-06	1.82E-07	0.00E+00	1.71E-06	5.81E-08	1.87E-07	2.87E-08	2.74E-07	2.55E-09	1.43E-08	1.68E-09	1.85E-08
1469	576973.43	4194082.24	2.71E-07	8.43E-07	1.32E-07	0.00E+00	1.25E-06	4.23E-08	1.36E-07	2.08E-08	1.99E-07	1.86E-09	1.04E-08	1.22E-09	1.35E-08
1470	576980.55	4194076.47	2.81E-07	8.73E-07	1.37E-07	0.00E+00	1.29E-06	4.38E-08	1.41E-07	2.16E-08	2.06E-07	1.92E-09	1.07E-08	1.27E-09	1.39E-08
1471	576987.67	4194070.7	2.90E-07	9.00E-07	1.41E-07	0.00E+00	1.33E-06	4.51E-08	1.45E-07	2.23E-08	2.13E-07	1.98E-09	1.11E-08	1.31E-09	1.44E-08
1472	576994.79	4194064.93	2.98E-07	9.25E-07	1.45E-07	0.00E+00	1.37E-06	4.64E-08	1.49E-07	2.29E-08	2.18E-07	2.04E-09	1.14E-08	1.34E-09	1.48E-08
1473	577001.91	4194059.16	3.05E-07	9.48E-07	1.49E-07	0.00E+00	1.40E-06	4.75E-08	1.53E-07	2.35E-08	2.24E-07	2.09E-09	1.17E-08	1.38E-09	1.51E-08
1474	577009.03	4194053.39	3.12E-07	9.69E-07	1.52E-07	0.00E+00	1.43E-06	4.86E-08	1.56E-07	2.40E-08	2.29E-07	2.13E-09	1.19E-08	1.41E-09	1.55E-08
1475	577016.15	4194047.62	3.17E-07	9.87E-07	1.55E-07	0.00E+00	1.46E-06	4.95E-08	1.59E-07	2.44E-08	2.33E-07	2.17E-09	1.21E-08	1.43E-09	1.57E-08
1476	577023.27	4194041.85	3.22E-07	1.00E-06	1.57E-07	0.00E+00	1.48E-06	5.01E-08	1.61E-07	2.47E-08	2.36E-07	2.20E-09	1.23E-08	1.45E-09	1.60E-08
1477	577030.39	4194036.08	3.25E-07	1.01E-06	1.58E-07	0.00E+00	1.49E-06	5.07E-08	1.63E-07	2.50E-08	2.39E-07	2.22E-09	1.24E-08	1.47E-09	1.61E-08
1478	577037.51	4194030.32	3.28E-07	1.02E-06	1.60E-07	0.00E+00	1.51E-06	5.11E-08	1.64E-07	2.52E-08	2.40E-07	2.24E-09	1.25E-08	1.48E-09	1.63E-08
1479	577044.63	4194024.55	3.29E-07	1.02E-06	1.60E-07	0.00E+00	1.51E-06	5.13E-08	1.65E-07	2.53E-08	2.41E-07	2.25E-09	1.26E-08	1.48E-09	1.63E-08
1480	577051.75	4194018.78	3.30E-07	1.02E-06	1.60E-07	0.00E+00	1.51E-06	5.13E-08	1.65E-07	2.53E-08	2.42E-07	2.25E-09	1.26E-08	1.49E-09	1.63E-08
1481	577058.87	4194013.01	3.29E-07	1.02E-06	1.60E-07	0.00E+00	1.51E-06	5.12E-08	1.65E-07	2.53E-08	2.41E-07	2.25E-09	1.26E-08	1.48E-09	1.63E-08
1482	577065.99	4194007.24	3.27E-07	1.02E-06	1.59E-07	0.00E+00	1.50E-06	5.10E-08	1.64E-07	2.52E-08	2.40E-07	2.24E-09	1.25E-08	1.48E-09	1.62E-08
1483	577073.11	4194001.47	3.25E-07	1.01E-06	1.58E-07	0.00E+00	1.49E-06	5.06E-08	1.63E-07	2.50E-08	2.38E-07	2.22E-09	1.24E-08	1.47E-09	1.61E-08
1484	577080.22	4193995.7	3.22E-07	1.00E-06	1.57E-07	0.00E+00	1.48E-06	5.01E-08	1.61E-07	2.47E-08	2.36E-07	2.20E-09	1.23E-08	1.45E-09	1.60E-08
1485	577087.34	4193989.93	3.18E-07	9.88E-07	1.55E-07	0.00E+00	1.46E-06	4.95E-08	1.59E-07	2.44E-08	2.33E-07	2.17E-09	1.22E-08	1.43E-09	1.58E-08
1486	577094.46	4193984.16	3.13E-07	9.74E-07	1.52E-07	0.00E+00	1.44E-06	4.88E-08	1.57E-07	2.41E-08	2.30E-07	2.14E-09	1.20E-08	1.41E-09	1.55E-08
1487	577101.58	4193978.39	3.08E-07	9.58E-07	1.50E-07	0.00E+00	1.42E-06	4.80E-08	1.54E-07	2.37E-08	2.26E-07	2.11E-09	1.18E-08	1.39E-09	1.53E-08
1488	577108.7	4193972.62	3.02E-07	9.40E-07	1.47E-07	0.00E+00	1.39E-06	4.71E-08	1.52E-07	2.32E-08	2.22E-07	2.07E-09	1.16E-08	1.36E-09	1.50E-08
1489	577116.94	4193968.37	3.00E-07	9.31E-07	1.46E-07	0.00E+00	1.38E-06	4.67E-08	1.50E-07	2.30E-08	2.20E-07	2.05E-09	1.15E-08	1.35E-09	1.49E-08
1490	577126.06	4193967.56	3.03E-07	9.41E-07	1.47E-07	0.00E+00	1.39E-06	4.72E-08	1.52E-07	2.33E-08	2.22E-07	2.07E-09	1.16E-08	1.37E-09	1.50E-08

1491	577135.19	4193966.74	3.06E-07	9.50E-07	1.49E-07	0.00E+00	1.41E-06	4.76E-08	1.53E-07	2.35E-08	2.24E-07	2.09E-09	1.17E-08	1.38E-09	1.52E-08
1492	577144.32	4193965.93	3.09E-07	9.59E-07	1.50E-07	0.00E+00	1.42E-06	4.81E-08	1.55E-07	2.37E-08	2.26E-07	2.11E-09	1.18E-08	1.39E-09	1.53E-08
1493	577153.45	4193965.12	3.11E-07	9.67E-07	1.52E-07	0.00E+00	1.43E-06	4.85E-08	1.56E-07	2.39E-08	2.28E-07	2.13E-09	1.19E-08	1.40E-09	1.54E-08
1494	577162.57	4193964.3	3.14E-07	9.76E-07	1.53E-07	0.00E+00	1.44E-06	4.89E-08	1.57E-07	2.41E-08	2.30E-07	2.15E-09	1.20E-08	1.42E-09	1.56E-08
1495	577171.7	4193963.49	3.17E-07	9.84E-07	1.54E-07	0.00E+00	1.46E-06	4.93E-08	1.59E-07	2.43E-08	2.32E-07	2.17E-09	1.21E-08	1.43E-09	1.57E-08
1496	577180.83	4193962.67	3.20E-07	9.94E-07	1.56E-07	0.00E+00	1.47E-06	4.98E-08	1.60E-07	2.46E-08	2.35E-07	2.19E-09	1.22E-08	1.44E-09	1.59E-08
1497	577189.96	4193961.86	3.23E-07	1.00E-06	1.57E-07	0.00E+00	1.48E-06	5.03E-08	1.62E-07	2.48E-08	2.37E-07	2.21E-09	1.23E-08	1.46E-09	1.60E-08
1498	577199.08	4193961.04	3.26E-07	1.01E-06	1.59E-07	0.00E+00	1.50E-06	5.08E-08	1.63E-07	2.51E-08	2.39E-07	2.23E-09	1.25E-08	1.47E-09	1.62E-08
1499	577208.21	4193960.23	3.30E-07	1.02E-06	1.60E-07	0.00E+00	1.51E-06	5.14E-08	1.65E-07	2.53E-08	2.42E-07	2.25E-09	1.26E-08	1.49E-09	1.63E-08
1500	577217.34	4193959.42	3.33E-07	1.04E-06	1.62E-07	0.00E+00	1.53E-06	5.19E-08	1.67E-07	2.56E-08	2.44E-07	2.28E-09	1.27E-08	1.50E-09	1.65E-08
1501	577226.47	4193958.6	3.37E-07	1.05E-06	1.64E-07	0.00E+00	1.55E-06	5.24E-08	1.69E-07	2.59E-08	2.47E-07	2.30E-09	1.29E-08	1.52E-09	1.67E-08
1502	577235.59	4193957.79	3.40E-07	1.06E-06	1.65E-07	0.00E+00	1.56E-06	5.29E-08	1.70E-07	2.61E-08	2.49E-07	2.32E-09	1.30E-08	1.53E-09	1.69E-08
1503	577244.72	4193956.97	3.43E-07	1.07E-06	1.67E-07	0.00E+00	1.58E-06	5.34E-08	1.72E-07	2.64E-08	2.52E-07	2.34E-09	1.31E-08	1.55E-09	1.70E-08
1504	577253.85	4193956.16	3.46E-07	1.07E-06	1.68E-07	0.00E+00	1.59E-06	5.38E-08	1.73E-07	2.66E-08	2.54E-07	2.36E-09	1.32E-08	1.56E-09	1.71E-08
1505	577262.98	4193955.34	3.48E-07	1.08E-06	1.69E-07	0.00E+00	1.60E-06	5.41E-08	1.74E-07	2.67E-08	2.55E-07	2.38E-09	1.33E-08	1.57E-09	1.72E-08
1506	577272.1	4193954.53	3.49E-07	1.08E-06	1.70E-07	0.00E+00	1.60E-06	5.44E-08	1.75E-07	2.68E-08	2.56E-07	2.39E-09	1.34E-08	1.57E-09	1.73E-08
1507	577281.23	4193953.71	3.50E-07	1.09E-06	1.70E-07	0.00E+00	1.61E-06	5.45E-08	1.75E-07	2.69E-08	2.57E-07	2.39E-09	1.34E-08	1.58E-09	1.74E-08
1508	576965.14	4194076.64	2.55E-07	7.93E-07	1.24E-07	0.00E+00	1.17E-06	3.97E-08	1.28E-07	1.96E-08	1.87E-07	1.74E-09	9.76E-09	1.15E-09	1.27E-08
1509	576972.26	4194070.87	2.64E-07	8.22E-07	1.29E-07	0.00E+00	1.22E-06	4.12E-08	1.33E-07	2.03E-08	1.94E-07	1.81E-09	1.01E-08	1.19E-09	1.31E-08
1510	576979.39	4194065.1	2.73E-07	8.47E-07	1.33E-07	0.00E+00	1.25E-06	4.25E-08	1.37E-07	2.09E-08	2.00E-07	1.86E-09	1.04E-08	1.23E-09	1.35E-08
1511	576986.51	4194059.33	2.80E-07	8.70E-07	1.36E-07	0.00E+00	1.29E-06	4.36E-08	1.40E-07	2.15E-08	2.05E-07	1.91E-09	1.07E-08	1.26E-09	1.39E-08
1512	576993.63	4194053.56	2.87E-07	8.91E-07	1.40E-07	0.00E+00	1.32E-06	4.47E-08	1.44E-07	2.20E-08	2.10E-07	1.96E-09	1.10E-08	1.29E-09	1.42E-08
1513	577000.75	4194047.79	2.93E-07	9.11E-07	1.43E-07	0.00E+00	1.35E-06	4.57E-08	1.47E-07	2.25E-08	2.15E-07	2.00E-09	1.12E-08	1.32E-09	1.45E-08
1514	577007.87	4194042.02	2.98E-07	9.27E-07	1.45E-07	0.00E+00	1.37E-06	4.65E-08	1.50E-07	2.29E-08	2.19E-07	2.04E-09	1.14E-08	1.35E-09	1.48E-08
1515	577014.99	4194036.25	3.03E-07	9.41E-07	1.47E-07	0.00E+00	1.39E-06	4.72E-08	1.52E-07	2.33E-08	2.22E-07	2.07E-09	1.16E-08	1.37E-09	1.50E-08
1516	577022.11	4194030.48	3.06E-07	9.51E-07	1.49E-07	0.00E+00	1.41E-06	4.77E-08	1.53E-07	2.35E-08	2.25E-07	2.09E-09	1.17E-08	1.38E-09	1.52E-08
1517	577029.24	4194024.71	3.09E-07	9.59E-07	1.50E-07	0.00E+00	1.42E-06	4.81E-08	1.55E-07	2.37E-08	2.26E-07	2.11E-09	1.18E-08	1.39E-09	1.53E-08
1518	577036.36	4194018.94	3.10E-07	9.64E-07	1.51E-07	0.00E+00	1.42E-06	4.83E-08	1.55E-07	2.38E-08	2.28E-07	2.12E-09	1.19E-08	1.40E-09	1.54E-08
1519	577043.48	4194013.17	3.11E-07	9.66E-07	1.51E-07	0.00E+00	1.43E-06	4.84E-08	1.56E-07	2.39E-08	2.28E-07	2.12E-09	1.19E-08	1.40E-09	1.54E-08
1520	577050.6	4194007.39	3.10E-07	9.65E-07	1.51E-07	0.00E+00	1.43E-06	4.84E-08	1.56E-07	2.39E-08	2.28E-07	2.12E-09	1.19E-08	1.40E-09	1.54E-08
1521	577057.72	4194001.62	3.09E-07	9.61E-07	1.51E-07	0.00E+00	1.42E-06	4.82E-08	1.55E-07	2.38E-08	2.27E-07	2.12E-09	1.18E-08	1.39E-09	1.53E-08
1522	577064.84	4193995.85	3.07E-07	9.55E-07	1.50E-07	0.00E+00	1.41E-06	4.79E-08	1.54E-07	2.36E-08	2.26E-07	2.10E-09	1.18E-08	1.39E-09	1.52E-08
1523	577071.96	4193990.08	3.05E-07	9.47E-07	1.48E-07	0.00E+00	1.40E-06	4.75E-08	1.53E-07	2.34E-08	2.24E-07	2.08E-09	1.17E-08	1.37E-09	1.51E-08
1524	577079.08	4193984.31	3.01E-07	9.37E-07	1.47E-07	0.00E+00	1.39E-06	4.70E-08	1.51E-07	2.32E-08	2.21E-07	2.06E-09	1.15E-08	1.36E-09	1.50E-08
1525	577086.21	4193978.54	2.98E-07	9.25E-07	1.45E-07	0.00E+00	1.37E-06	4.64E-08	1.49E-07	2.29E-08	2.18E-07	2.03E-09	1.14E-08	1.34E-09	1.48E-08
1526	577093.33	4193972.77	2.93E-07	9.11E-07	1.43E-07	0.00E+00	1.35E-06	4.57E-08	1.47E-07	2.25E-08	2.15E-07	2.00E-09	1.12E-08	1.32E-09	1.45E-08
1527	577100.45	4193967	2.88E-07	8.95E-07	1.40E-07	0.00E+00	1.32E-06	4.49E-08	1.44E-07	2.21E-08	2.11E-07	1.97E-09	1.10E-08	1.30E-09	1.43E-08
1528	577107.57	4193961.23	2.83E-07	8.78E-07	1.38E-07	0.00E+00	1.30E-06	4.40E-08	1.42E-07	2.17E-08	2.07E-07	1.93E-09	1.08E-08	1.27E-09	1.40E-08
1529	577116.55	4193958.81	2.83E-07	8.80E-07	1.38E-07	0.00E+00	1.30E-06	4.41E-08	1.42E-07	2.18E-08	2.08E-07	1.94E-09	1.08E-08	1.28E-09	1.40E-08
1530	577125.68	4193957.99	2.86E-07	8.89E-07	1.39E-07	0.00E+00	1.31E-06	4.45E-08	1.43E-07	2.20E-08	2.10E-07	1.96E-09	1.09E-08	1.29E-09	1.42E-08
1531	577134.81	4193957.18	2.89E-07	8.97E-07	1.40E-07	0.00E+00	1.33E-06	4.50E-08	1.45E-07	2.22E-08	2.12E-07	1.97E-09	1.10E-08	1.30E-09	1.43E-08
1532	577143.93	4193956.36	2.91E-07	9.04E-07	1.42E-07	0.00E+00	1.34E-06	4.53E-08	1.46E-07	2.24E-08	2.13E-07	1.99E-09	1.11E-08	1.31E-09	1.44E-08
1533	577153.06	4193955.55	2.93E-07	9.12E-07	1.43E-07	0.00E+00	1.35E-06	4.57E-08	1.47E-07	2.25E-08	2.15E-07	2.01E-09	1.12E-08	1.32E-09	1.45E-08
1534	577162.19	4193954.73	2.96E-07	9.19E-07	1.44E-07	0.00E+00	1.36E-06	4.61E-08	1.48E-07	2.27E-08	2.17E-07	2.02E-09	1.13E-08	1.33E-09	1.47E-08
1535	577171.32	4193953.92	2.98E-07	9.27E-07	1.45E-07	0.00E+00	1.37E-06	4.65E-08	1.49E-07	2.29E-08	2.19E-07	2.04E-09	1.14E-08	1.34E-09	1.48E-08
1536	577180.45	4193953.1	3.01E-07	9.35E-07	1.47E-07	0.00E+00	1.38E-06	4.69E-08	1.51E-07	2.31E-08	2.21E-07	2.06E-09	1.15E-08	1.36E-09	1.49E-08
1537	577189.58	4193952.29	3.04E-07	9.44E-07	1.48E-07	0.00E+00	1.40E-06	4.73E-08	1.52E-07	2.34E-08	2.23E-07	2.08E-09	1.16E-08	1.37E-09	1.51E-08
1538	577198.71	4193951.47	3.07E-07	9.54E-07	1.49E-07	0.00E+00	1.41E-06	4.78E-08	1.54E-07	2.36E-08	2.25E-07	2.10E-09	1.17E-08	1.38E-09	1.52E-08
1539	577207.84	4193950.66	3.10E-07	9.64E-07	1.51E-07	0.00E+00	1.43E-06	4.83E-08	1.55E-07	2.38E-08	2.28E-07	2.12E-09	1.19E-08	1.40E-09	1.54E-08
1540	577216.97	4193949.84	3.13E-07	9.74E-07	1.53E-07	0.00E+00	1.44E-06	4.88E-08	1.57E-07	2.41E-08	2.30E-07	2.14E-09	1.20E-08	1.41E-09	1.55E-08
1541	577226.1	4193949.03	3.17E-07	9.84E-07	1.54E-07	0.00E+00	1.45E-06	4.93E-08	1.59E-07	2.43E-08	2.32E-07	2.16E-09	1.21E-08	1.43E-09	1.57E-08
1542	577235.23	4193948.22	3.20E-07	9.93E-07	1.56E-07	0.00E+00	1.47E-06	4.98E-08	1.60E-07	2.46E-08	2.35E-07	2.19E-09	1.22E-08	1.44E-09	1.59E-08
1543	577244.36	4193947.4	3.22E-07	1.00E-06	1.57E-07	0.00E+00	1.48E-06	5.02E-08	1.62E-07	2.48E-08	2.37E-07	2.20E-09	1.23E-08	1.45E-09	1.60E-08
1544	577253.49	4193946.59	3.25E-07	1.01E-06	1.58E-07	0.00E+00	1.49E-06	5.06E-08	1.63E-07	2.50E-08	2.38E-07	2.22E-09	1.24E-08	1.46E-09	1.61E-08
1545	577262.62	4193945.77	3.27E-07	1.02E-06	1.59E-07	0.00E+00	1.50E-06	5.09E-08	1.64E-07	2.51E-08	2.40E-07	2.23E-09	1.25E-08	1.47E-09	1.62E-08
1546	577271.75	4193944.96	3.28E-07	1.02E-06	1.60E-07	0.00E+00	1.51E-06	5.11E-08	1.64E-07	2.52E-08	2.41E-07	2.24E-09	1.25E-08	1.48E-09	1.63E-08
1547	577280.88	4193944.14	3.29E-07	1.02E-06	1.60E-07	0.00E+00	1.51E-06	5.13E-08	1.65E-07	2.53E-08	2.41E-07	2.25E-09	1.26E-08	1.48E-09	1.63E-08
1548	577208.27	4194260.32	4.73E-06	1.47E-05	2.30E-06	0.00E+00	2.17E-05	7.37E-07	2.37E-06	3.64E-07	3.47E-06	3.24E-08	1.81E-07	2.13E-08	2.35E-07
1549	577200.52	4194249.54	4.23E-06	1.31E-05	2.06E-06	0.00E+00	1.94E-05	6.59E-07	2.12E-06	3.25E-07	3.10E-06	2.89E-08	1.62E-07	1.91E-08	2.10E-07
1550	577190.78	4194247.26	3.53E-06	1.10E-05	1.72E-06	0.00E+00	1.62E-05	5.50E-07	1.77E-06	2.71E-07	2.59E-06	2.41E-08	1.35E-07	1.59E-08	1.75E-07
1551	577183.46	4194239.46	3.22E-06	1.00E-05	1.57E-06	0.00E+00	1.48E-05	5.02E-07	1.61E-06	2.48E-07	2.36E-06	2.20E-08	1.23E-07	1.45E-08	1.60E-07
1552	577179.06	4194253.48	2.74E-06	8.51E-06	1.33E-06	0.00E+00	1.26E-05	4.27E-07	1.37E-06	2.10E-07	2.01E-06	1.87E-08	1.05E-07	1.23E-08	1.36E-07
1553	577174.21	4194236.07	2.78E-06	8.63E-06	1.35E-06	0.00E+00	1.28E-05	4.33E-07	1.39E-06	2.13E-07	2.04E-06	1.90E-08	1.06E-07	1.25E-08	1.38E-07
1554	577169.32	4194251.2	2.35E-06	7.30E-06	1.14E-06	0.00E+00	1.08E-05	3.66E-07	1.18E-06	1.81E-07	1.72E-06	1.61E-08	8.99E-08	1.06E-08	1.17E-07
1555	577164.95	4194232.69	2.39E-06	7.42E-06	1.16E-06	0.00E+00	1.10E-05	3.72E-07	1.20E-06	1.84E-07	1.75E-06	1.63E-08	9.13E-08	1.08E-08	1.18E-07
1556	577159.58	4194248.92	2.00E-06	6.22E-06	9.74E-07	0.00E+00	9.20E-06	3.12E-07	1.00E-06	1.54E-07	1.47E-06	1.37E-08	7.66E-08	9.02E-09	9.93E-08
1557	577154.73	4194231.51	2.02E-06	6.28E-06	9.84E-07	0.00E+00	9.29E-06	3.15E-07	1.01E-06	1.55E-07	1.48E-06	1.38E-08	7.73E-08	9.12E-09	1.00E-07
1558	577149.85	4194246.64	1.70E-06	5.29E-06	8.28E-07	0.00E+00	7.82E-06	2.65E-07	8.53E-07	1.31E-07	1.25E-06	1.16E-08	6.51E-08	7.67E-09	8.44E-08
1559	577145.36	4194228.4	1.76E-06	5.46E-06	8.54E-07	0.00E+00	8.07E-06	2.73E-07	8.80E-07	1.35E-07	1.29E-06	1.20E-08	6.71E-08	7.92E-09	8.71E-08
1560	577151.88	4194213.49	1.95E-06	6.07E-06	9.50E-07	0.00E+00	8.97E-06	3.04E-07	9.78E-07	1.50E-07	1.43E-06	1.33E-08	7.47E-08	8.80E-09	9.68E-08
1561	577140.11	4194244.36	1.46E-06	4.53E-06	7.10E-07	0.00E+00	6.70E-06	2.27E-07	7.31E-07	1.12E-07	1.07E-06	9.97E-09	5.58E-08	6.57E-09	7.23E-08
1562	577135.26	4194226.95	1.51E-06	4.68E-06	7.33E-07	0.00E+00	6.92E-06	2.35E-07	7.55E-07	1.16E-07	1.11E-06	1.03E-08	5.76E-08	6.79E-09	7.47E-08
1563	577141.05	4194213.69	1.67E-06	5.18E-06	8.12E-07	0.00E+00	7.66E-06	2.60E-07	8.36E-07	1.28E-07	1.22E-06	1.14E-08	6.38E-08	7.52E-09	8.27E-08
1564	577130.37	4194242.08	1.26E-06	3.91E-06	6.12E-07	0.00E+00	5.78E-06	1.96E-07	6.30E-07	9.67E-08	9.23E-07	8.60E-09	4.81E-08	5.67E-09	6.24E-08
1565	577125.81	4194224.01	1.30E-06	4.06E-06	6.35E-07	0.00E+00	6.00E-06	2.03E-07	6.54E-07	1.00E-07	9.58E-07	8.92E-09	4.99E-08	5.88E-09	6.47E-08
1566	577132.18	4194209.42	1.46E-06	4.55E-06	7.13E-07	0.00E+00	6.73E-06	2.28E-07	7.34E-07	1.13E-07	1.07E-06	1.00E-08	5.60E-08	6.60E-09	7.26E-08
1567	577120.64	4194239.81	1.09E-06	3.39E-06	5.31E-07	0.00E+00	5.01E-06	1.70E-07	5.46E-07	8.38E-08	8.00E-07	7.46E-09	4.17E-08	4.92E-09	5.41E-08
1568	577116.37	4194221.07	1.14E-06	3.53E-06	5.53E-07	0.00E+00	5.22E-06	1.77E-07	5.70E-07	8.73E-08	8.34E-07	7.77E-09	4.35E-08	5.12E-09	5.64E-08
1569	577123.32	4194205.16	1.29E-06	4.00E-06	6.27E-07	0.00E+00	5.92E-06	2.01E-07	6.45E-07	9.90E-08	9.45E-07	8.81E-09	4.93E-08	5.81E-09	6.39E-08
1570	577110.9	4194237.53	9.49E-07	2.95E-06	4.62E-07	0.00E+00	4.36E-06	1.48E-07	4.75E-07	7.29E-08	6.96E-07	6.49E-09	3.63E-08	4.28E-09	4.71E-08
1571	577106.29	4194219.56	9.82E-07	3.05E-06	4.78E-07	0.00E+00	4.51E-06	1.53E-07	4.92E-07	7.55E-08	7.21E-07	6.72E-09	3.76E-08	4.43E-09	4.87E-08
1572	577112.57	4194205.2	1.11E-06	3.45E-06	5.41E-07	0.00E+00	5.10E-06	1.73E-07	5.57E-07	8.54E-08	8.15E-07	7.60E-09	4.25E-08	5.01E-09	5.51E-08
1573	577101.16	4194235.25	8.31E-07	2.58E-06	4.05E-07	0.00E+00	3.82E-06	1.30E-07	4.17E-07	6.39E-08	6.10E-07	5.69E-09	3.18E-08	3.75E-09	4.12E-08

1574	577096.8	4194216.73	8.69E-07	2.70E-06	4.23E-07	0.00E+00	3.99E-06	1.35E-07	4.35E-07	6.68E-08	6.38E-07	5.94E-09	3.32E-08	3.92E-09	4.31E-08
1575	577103.55	4194201.26	9.88E-07	3.07E-06	4.81E-07	0.00E+00	4.54E-06	1.54E-07	4.95E-07	7.59E-08	7.25E-07	6.76E-09	3.78E-08	4.46E-09	4.90E-08
1576	577110.31	4194185.79	1.06E-06	3.31E-06	5.18E-07	0.00E+00	4.89E-06	1.66E-07	5.33E-07	8.18E-08	7.81E-07	7.28E-09	4.07E-08	4.80E-09	5.28E-08
1577	577091.43	4194232.97	7.35E-07	2.29E-06	3.58E-07	0.00E+00	3.38E-06	1.15E-07	3.69E-07	5.65E-08	5.40E-07	5.03E-09	2.81E-08	3.32E-09	3.65E-08
1578	577086.78	4194215.08	7.64E-07	2.37E-06	3.72E-07	0.00E+00	3.51E-06	1.19E-07	3.83E-07	5.87E-08	5.61E-07	5.22E-09	2.92E-08	3.44E-09	3.79E-08
1579	577092.99	4194200.87	8.63E-07	2.68E-06	4.20E-07	0.00E+00	3.97E-06	1.34E-07	4.32E-07	6.63E-08	6.33E-07	5.90E-09	3.30E-08	3.89E-09	4.28E-08
1580	577099.2	4194186.67	9.34E-07	2.90E-06	4.55E-07	0.00E+00	4.29E-06	1.45E-07	4.68E-07	7.18E-08	6.85E-07	6.39E-09	3.57E-08	4.21E-09	4.63E-08
1581	577081.69	4194230.69	6.53E-07	2.03E-06	3.18E-07	0.00E+00	3.00E-06	1.02E-07	3.27E-07	5.02E-08	4.80E-07	4.47E-09	2.50E-08	2.95E-09	3.24E-08
1582	577077.25	4194212.33	6.83E-07	2.12E-06	3.32E-07	0.00E+00	3.14E-06	1.06E-07	3.42E-07	5.25E-08	5.01E-07	4.67E-09	2.61E-08	3.08E-09	3.39E-08
1583	577083.87	4194197.17	7.75E-07	2.41E-06	3.77E-07	0.00E+00	3.56E-06	1.21E-07	3.88E-07	5.95E-08	5.69E-07	5.30E-09	2.96E-08	3.49E-09	3.84E-08
1584	577090.49	4194182.02	8.41E-07	2.61E-06	4.09E-07	0.00E+00	3.86E-06	1.31E-07	4.21E-07	6.46E-08	6.17E-07	5.75E-09	3.22E-08	3.79E-09	4.17E-08
1585	577071.95	4194228.41	5.82E-07	1.81E-06	2.84E-07	0.00E+00	2.68E-06	9.07E-08	2.92E-07	4.48E-08	4.27E-07	3.98E-09	2.23E-08	2.63E-09	2.89E-08
1586	577067.28	4194210.58	6.05E-07	1.88E-06	2.94E-07	0.00E+00	2.78E-06	9.42E-08	3.03E-07	4.65E-08	4.44E-07	4.14E-09	2.31E-08	2.73E-09	3.00E-08
1587	577073.44	4194196.49	6.83E-07	2.12E-06	3.33E-07	0.00E+00	3.14E-06	1.06E-07	3.43E-07	5.25E-08	5.02E-07	4.67E-09	2.61E-08	3.08E-09	3.39E-08
1588	577079.59	4194182.4	7.44E-07	2.31E-06	3.62E-07	0.00E+00	3.42E-06	1.16E-07	3.73E-07	5.72E-08	5.46E-07	5.09E-09	2.85E-08	3.36E-09	3.69E-08
1589	577062.22	4194226.13	5.19E-07	1.61E-06	2.53E-07	0.00E+00	2.39E-06	8.09E-08	2.60E-07	3.99E-08	3.81E-07	3.55E-09	1.99E-08	2.34E-09	2.58E-08
1590	577057.73	4194207.89	5.42E-07	1.68E-06	2.64E-07	0.00E+00	2.49E-06	8.45E-08	2.72E-07	4.17E-08	3.98E-07	3.71E-09	2.07E-08	2.44E-09	2.69E-08
1591	577064.24	4194192.97	6.15E-07	1.91E-06	2.99E-07	0.00E+00	2.83E-06	9.58E-08	3.08E-07	4.73E-08	4.51E-07	4.21E-09	2.35E-08	2.77E-09	3.05E-08
1592	577070.76	4194178.05	6.74E-07	2.10E-06	3.28E-07	0.00E+00	3.10E-06	1.05E-07	3.38E-07	5.18E-08	4.95E-07	4.61E-09	2.58E-08	3.04E-09	3.35E-08
1593	577077.28	4194163.13	7.09E-07	2.20E-06	3.45E-07	0.00E+00	3.26E-06	1.10E-07	3.55E-07	5.45E-08	5.20E-07	4.85E-09	2.71E-08	3.20E-09	3.52E-08
1594	577052.48	4194223.85	4.65E-07	1.45E-06	2.26E-07	0.00E+00	2.14E-06	7.25E-08	2.33E-07	3.58E-08	3.41E-07	3.18E-09	1.78E-08	2.10E-09	2.31E-08
1595	577048.17	4194205.2	4.88E-07	1.52E-06	2.37E-07	0.00E+00	2.24E-06	7.60E-08	2.44E-07	3.75E-08	3.58E-07	3.34E-09	1.87E-08	2.20E-09	2.42E-08
1596	577055.05	4194189.45	5.56E-07	1.73E-06	2.71E-07	0.00E+00	2.56E-06	8.67E-08	2.79E-07	4.28E-08	4.08E-07	3.80E-09	2.13E-08	2.51E-09	2.76E-08
1597	577061.93	4194173.7	6.12E-07	1.90E-06	2.98E-07	0.00E+00	2.81E-06	9.54E-08	3.07E-07	4.70E-08	4.49E-07	4.19E-09	2.34E-08	2.76E-09	3.04E-08
1598	577068.81	4194157.95	6.46E-07	2.01E-06	3.15E-07	0.00E+00	2.97E-06	1.01E-07	3.24E-07	4.97E-08	4.74E-07	4.42E-09	2.47E-08	2.91E-09	3.21E-08
1599	577042.74	4194221.57	4.19E-07	1.30E-06	2.04E-07	0.00E+00	1.92E-06	6.52E-08	2.10E-07	3.22E-08	3.07E-07	2.86E-09	1.60E-08	1.89E-09	2.08E-08
1600	577038.21	4194203.42	4.37E-07	1.36E-06	2.13E-07	0.00E+00	2.01E-06	6.81E-08	2.19E-07	3.36E-08	3.21E-07	2.99E-09	1.67E-08	1.97E-09	2.17E-08
1601	577044.65	4194188.69	4.95E-07	1.54E-06	2.41E-07	0.00E+00	2.27E-06	7.71E-08	2.48E-07	3.80E-08	3.63E-07	3.38E-09	1.89E-08	2.23E-09	2.45E-08
1602	577051.09	4194173.95	5.45E-07	1.69E-06	2.65E-07	0.00E+00	2.50E-06	8.49E-08	2.73E-07	4.19E-08	4.00E-07	3.73E-09	2.08E-08	2.46E-09	2.70E-08
1603	577057.52	4194159.22	5.81E-07	1.81E-06	2.83E-07	0.00E+00	2.67E-06	9.05E-08	2.91E-07	4.47E-08	4.26E-07	3.97E-09	2.22E-08	2.62E-09	2.88E-08
1604	577033.01	4194219.29	3.77E-07	1.17E-06	1.84E-07	0.00E+00	1.73E-06	5.88E-08	1.89E-07	2.90E-08	2.77E-07	2.58E-09	1.44E-08	1.70E-09	1.87E-08
1605	577028.64	4194200.77	3.98E-07	1.24E-06	1.94E-07	0.00E+00	1.83E-06	6.19E-08	1.99E-07	3.06E-08	2.92E-07	2.72E-09	1.52E-08	1.79E-09	1.97E-08
1606	577035.4	4194185.3	4.52E-07	1.41E-06	2.20E-07	0.00E+00	2.08E-06	7.05E-08	2.27E-07	3.48E-08	3.32E-07	3.09E-09	1.73E-08	2.04E-09	2.24E-08
1607	577042.15	4194169.83	4.98E-07	1.55E-06	2.42E-07	0.00E+00	2.29E-06	7.76E-08	2.50E-07	3.83E-08	3.65E-07	3.41E-09	1.91E-08	2.25E-09	2.47E-08
1608	577048.91	4194154.36	5.32E-07	1.65E-06	2.59E-07	0.00E+00	2.45E-06	8.29E-08	2.67E-07	4.09E-08	3.91E-07	3.64E-09	2.04E-08	2.40E-09	2.64E-08
1609	577023.27	4194217.01	3.41E-07	1.06E-06	1.66E-07	0.00E+00	1.57E-06	5.32E-08	1.71E-07	2.62E-08	2.51E-07	2.34E-09	1.31E-08	1.54E-09	1.69E-08
1610	577018.71	4194198.94	3.60E-07	1.12E-06	1.75E-07	0.00E+00	1.65E-06	5.61E-08	1.80E-07	2.77E-08	2.64E-07	2.46E-09	1.38E-08	1.62E-09	1.79E-08
1611	577025.08	4194184.35	4.08E-07	1.27E-06	1.98E-07	0.00E+00	1.87E-06	6.35E-08	2.04E-07	3.13E-08	2.99E-07	2.79E-09	1.56E-08	1.84E-09	2.02E-08
1612	577031.45	4194169.76	4.49E-07	1.39E-06	2.18E-07	0.00E+00	2.06E-06	6.99E-08	2.25E-07	3.45E-08	3.29E-07	3.07E-09	1.72E-08	2.02E-09	2.22E-08
1613	577037.82	4194155.18	4.80E-07	1.49E-06	2.34E-07	0.00E+00	2.21E-06	7.48E-08	2.41E-07	3.69E-08	3.52E-07	3.28E-09	1.84E-08	2.16E-09	2.38E-08
1614	577013.53	4194214.73	3.11E-07	9.65E-07	1.51E-07	0.00E+00	1.43E-06	4.84E-08	1.56E-07	2.39E-08	2.28E-07	2.12E-09	1.19E-08	1.40E-09	1.54E-08
1615	577009.12	4194196.33	3.30E-07	1.03E-06	1.61E-07	0.00E+00	1.52E-06	5.14E-08	1.65E-07	2.54E-08	2.42E-07	2.26E-09	1.26E-08	1.49E-09	1.64E-08
1616	577015.78	4194181.08	3.75E-07	1.17E-06	1.83E-07	0.00E+00	1.72E-06	5.84E-08	1.88E-07	2.88E-08	2.75E-07	2.56E-09	1.43E-08	1.69E-09	1.86E-08
1617	577022.44	4194165.83	4.14E-07	1.29E-06	2.01E-07	0.00E+00	1.90E-06	6.45E-08	2.07E-07	3.18E-08	3.04E-07	2.83E-09	1.58E-08	1.87E-09	2.05E-08
1618	577029.1	4194150.58	4.43E-07	1.38E-06	2.16E-07	0.00E+00	2.03E-06	6.90E-08	2.22E-07	3.40E-08	3.25E-07	3.03E-09	1.69E-08	2.00E-09	2.20E-08
1619	577035.76	4194135.33	4.63E-07	1.44E-06	2.25E-07	0.00E+00	2.13E-06	7.22E-08	2.32E-07	3.56E-08	3.40E-07	3.17E-09	1.77E-08	2.09E-09	2.30E-08
1620	577003.8	4194212.45	2.84E-07	8.82E-07	1.38E-07	0.00E+00	1.30E-06	4.42E-08	1.42E-07	2.18E-08	2.08E-07	1.94E-09	1.09E-08	1.28E-09	1.41E-08
1621	576999.52	4194193.71	3.03E-07	9.43E-07	1.48E-07	0.00E+00	1.39E-06	4.73E-08	1.52E-07	2.33E-08	2.23E-07	2.08E-09	1.16E-08	1.37E-09	1.51E-08
1622	577006.48	4194177.8	3.46E-07	1.08E-06	1.68E-07	0.00E+00	1.59E-06	5.39E-08	1.73E-07	2.66E-08	2.54E-07	2.37E-09	1.32E-08	1.56E-09	1.72E-08
1623	577013.43	4194161.89	3.82E-07	1.19E-06	1.86E-07	0.00E+00	1.76E-06	5.95E-08	1.92E-07	2.94E-08	2.80E-07	2.61E-09	1.46E-08	1.72E-09	1.90E-08
1624	577020.38	4194145.98	4.09E-07	1.27E-06	1.99E-07	0.00E+00	1.88E-06	6.37E-08	2.05E-07	3.14E-08	3.00E-07	2.80E-09	1.56E-08	1.84E-09	2.03E-08
1625	576994.06	4194210.17	2.60E-07	8.09E-07	1.27E-07	0.00E+00	1.20E-06	4.05E-08	1.30E-07	2.00E-08	1.91E-07	1.78E-09	9.96E-09	1.17E-09	1.29E-08
1626	576989.6	4194191.86	2.78E-07	8.64E-07	1.35E-07	0.00E+00	1.28E-06	4.33E-08	1.39E-07	2.14E-08	2.04E-07	1.90E-09	1.06E-08	1.25E-09	1.38E-08
1627	576996.19	4194176.79	3.15E-07	9.79E-07	1.53E-07	0.00E+00	1.45E-06	4.91E-08	1.58E-07	2.42E-08	2.31E-07	2.15E-09	1.21E-08	1.42E-09	1.56E-08
1628	577002.77	4194161.72	3.47E-07	1.08E-06	1.69E-07	0.00E+00	1.60E-06	5.41E-08	1.74E-07	2.67E-08	2.55E-07	2.37E-09	1.33E-08	1.57E-09	1.72E-08
1629	577009.35	4194146.65	3.72E-07	1.16E-06	1.81E-07	0.00E+00	1.71E-06	5.79E-08	1.86E-07	2.86E-08	2.73E-07	2.54E-09	1.42E-08	1.68E-09	1.84E-08
1630	577015.93	4194131.58	3.90E-07	1.21E-06	1.90E-07	0.00E+00	1.79E-06	6.08E-08	1.96E-07	3.00E-08	2.86E-07	2.67E-09	1.49E-08	1.76E-09	1.94E-08
1631	576984.32	4194207.89	2.40E-07	7.45E-07	1.17E-07	0.00E+00	1.10E-06	3.73E-08	1.20E-07	1.84E-08	1.76E-07	1.64E-09	9.17E-09	1.08E-09	1.19E-08
1632	576980	4194189.28	2.57E-07	7.99E-07	1.25E-07	0.00E+00	1.18E-06	4.00E-08	1.29E-07	1.97E-08	1.89E-07	1.76E-09	9.83E-09	1.16E-09	1.27E-08
1633	576986.84	4194173.6	2.92E-07	9.08E-07	1.42E-07	0.00E+00	1.34E-06	4.55E-08	1.46E-07	2.24E-08	2.14E-07	2.00E-09	1.12E-08	1.32E-09	1.45E-08
1634	576993.69	4194157.93	3.22E-07	1.00E-06	1.57E-07	0.00E+00	1.48E-06	5.02E-08	1.61E-07	2.48E-08	2.36E-07	2.20E-09	1.23E-08	1.45E-09	1.60E-08
1635	577000.54	4194142.26	3.45E-07	1.07E-06	1.68E-07	0.00E+00	1.59E-06	5.38E-08	1.73E-07	2.66E-08	2.54E-07	2.36E-09	1.32E-08	1.56E-09	1.71E-08
1636	577007.38	4194126.59	3.63E-07	1.13E-06	1.77E-07	0.00E+00	1.67E-06	5.66E-08	1.82E-07	2.79E-08	2.67E-07	2.48E-09	1.39E-08	1.64E-09	1.80E-08
1637	576974.59	4194205.61	2.22E-07	6.89E-07	1.08E-07	0.00E+00	1.02E-06	3.45E-08	1.11E-07	1.70E-08	1.63E-07	1.52E-09	8.48E-09	9.99E-10	1.10E-08
1638	576970.1	4194187.37	2.36E-07	7.35E-07	1.15E-07	0.00E+00	1.09E-06	3.68E-08	1.18E-07	1.82E-08	1.73E-07	1.62E-09	9.04E-09	1.07E-09	1.17E-08
1639	576976.61	4194172.45	2.67E-07	8.30E-07	1.30E-07	0.00E+00	1.23E-06	4.16E-08	1.34E-07	2.05E-08	1.96E-07	1.83E-09	1.02E-08	1.20E-09	1.32E-08
1640	576983.13	4194157.54	2.94E-07	9.15E-07	1.43E-07	0.00E+00	1.35E-06	4.59E-08	1.48E-07	2.26E-08	2.16E-07	2.01E-09	1.13E-08	1.33E-09	1.46E-08
1641	576989.65	4194142.62	3.16E-07	9.82E-07	1.54E-07	0.00E+00	1.45E-06	4.92E-08	1.58E-07	2.43E-08	2.32E-07	2.16E-09	1.21E-08	1.43E-09	1.57E-08
1642	576996.17	4194127.7	3.33E-07	1.04E-06	1.62E-07	0.00E+00	1.53E-06	5.19E-08	1.67E-07	2.56E-08	2.44E-07	2.28E-09	1.27E-08	1.50E-09	1.65E-08
1643	576964.85	4194203.33	2.06E-07	6.39E-07	1.00E-07	0.00E+00	9.45E-07	3.20E-08	1.03E-07	1.58E-08	1.51E-07	1.41E-09	7.86E-09	9.27E-10	1.02E-08
1644	576960.48	4194184.82	2.19E-07	6.81E-07	1.07E-07	0.00E+00	1.01E-06	3.42E-08	1.10E-07	1.69E-08	1.61E-07	1.50E-09	8.39E-09	9.89E-10	1.09E-08
1645	576967.24	4194169.35	2.48E-07	7.70E-07	1.21E-07	0.00E+00	1.14E-06	3.86E-08	1.24E-07	1.90E-08	1.82E-07	1.69E-09	9.48E-09	1.12E-09	1.23E-08
1646	576974	4194153.88	2.74E-07	8.51E-07	1.33E-07	0.00E+00	1.26E-06	4.26E-08	1.37E-07	2.10E-08	2.01E-07	1.87E-09	1.05E-08	1.23E-09	1.36E-08
1647	576980.76	4194138.4	2.95E-07	9.17E-07	1.44E-07	0.00E+00	1.36E-06	4.60E-08	1.48E-07	2.27E-08	2.16E-07	2.02E-09	1.13E-08	1.33E-09	1.46E-08
1648	576987.51	4194122.93	3.11E-07	9.66E-07	1.51E-07	0.00E+00	1.43E-06	4.84E-08	1.56E-07	2.39E-08	2.28E-07	2.13E-09	1.19E-08	1.40E-09	1.54E-08
1649	576955.11	4194201.05	1.91E-07	5.94E-07	9.30E-08	0.00E+00	8.78E-07	2.98E-08	9.58E-08	1.47E-08	1.40E-07	1.31E-09	7.31E-09	8.62E-10	9.48E-09
1650	576950.6	4194182.88	2.03E-07	6.30E-07	9.86E-08	0.00E+00	9.31E-07	3.16E-08	1.02E-07	1.56E-08	1.49E-07	1.39E-09	7.75E-09	9.14E-10	1.00E-08
1651	576957.06	4194168.09	2.27E-07	7.06E-07	1.11E-07	0.00E+00	1.04E-06	3.54E-08	1.14E-07	1.75E-08	1.67E-07	1.55E-09	8.69E-09	1.02E-09	1.13E-08
1652	576963.52	4194153.3	2.51E-07	7.80E-07	1.22E-07	0.00E+00	1.15E-06	3.91E-08	1.26E-07	1.93E-08	1.84E-07	1.72E-09	9.60E-09	1.13E-09	1.24E-08
1653	576969.98	4194138.51	2.71E-07	8.42E-07	1.32E-07	0.00E+00	1.24E-06	4.22E-08	1.36E-07	2.08E-08	1.99E-07	1.85E-09	1.04E-08	1.22E-09	1.34E-08
1654	576976.44	4194123.71	2.86E-07	8.90E-07	1.39E-07	0.00E+00	1.32E-06	4.46E-08	1.43E-07	2.20E-08	2.10E-07	1.96E-09	1.10E-08	1.29E-09	1.42E-08
1655	576945.38	4194198.77	1.78E-07	5.52E-07	8.64E-08	0.00E+00	8.16E-07	2.77E-08	8.90E-08	1.36E-08	1.30E-07	1.21E-09	6.79E-09	8.01E-10	8.81E-09
1656	576940.97	4194180.34	1.89E-07	5.86E-07	9.18E-08	0.00E+00	8.66E-07	2.94E-08	9.45E-08	1.45E-08	1.38E-07	1.29E-09	7.21E-09	8.50E-10	9.35E-09

1657	576947.65	4194165.04	2.12E-07	6.59E-07	1.03E-07	0.00E+00	9.75E-07	3.30E-08	1.06E-07	1.63E-08	1.56E-07	1.45E-09	8.11E-09	9.56E-10	1.05E-08
1658	576954.34	4194149.74	2.35E-07	7.29E-07	1.14E-07	0.00E+00	1.08E-06	3.65E-08	1.18E-07	1.80E-08	1.72E-07	1.60E-09	8.97E-09	1.06E-09	1.16E-08
1659	576961.02	4194134.44	2.54E-07	7.89E-07	1.24E-07	0.00E+00	1.17E-06	3.96E-08	1.27E-07	1.95E-08	1.86E-07	1.74E-09	9.71E-09	1.15E-09	1.26E-08
1660	576935.64	4194196.49	1.65E-07	5.13E-07	8.04E-08	0.00E+00	7.59E-07	2.57E-08	8.28E-08	1.27E-08	1.21E-07	1.13E-09	6.32E-09	7.45E-10	8.19E-09
1661	576931.35	4194177.81	1.76E-07	5.47E-07	8.57E-08	0.00E+00	8.09E-07	2.74E-08	8.82E-08	1.35E-08	1.29E-07	1.20E-09	6.73E-09	7.94E-10	8.73E-09
1662	576938.25	4194162	1.99E-07	6.17E-07	9.67E-08	0.00E+00	9.13E-07	3.09E-08	9.95E-08	1.53E-08	1.46E-07	1.36E-09	7.60E-09	8.96E-10	9.85E-09
1663	576945.16	4194146.19	2.20E-07	6.83E-07	1.07E-07	0.00E+00	1.01E-06	3.42E-08	1.10E-07	1.69E-08	1.61E-07	1.50E-09	8.40E-09	9.91E-10	1.09E-08
1664	576952.07	4194130.38	2.38E-07	7.41E-07	1.16E-07	0.00E+00	1.09E-06	3.71E-08	1.19E-07	1.83E-08	1.75E-07	1.63E-09	9.11E-09	1.07E-09	1.18E-08
1665	576925.9	4194194.21	1.54E-07	4.78E-07	7.49E-08	0.00E+00	7.07E-07	2.40E-08	7.71E-08	1.18E-08	1.13E-07	1.05E-09	5.89E-09	6.94E-10	7.63E-09
1666	576921.47	4194175.86	1.64E-07	5.09E-07	7.97E-08	0.00E+00	7.53E-07	2.55E-08	8.21E-08	1.26E-08	1.20E-07	1.12E-09	6.27E-09	7.39E-10	8.12E-09
1667	576928.09	4194160.7	1.84E-07	5.72E-07	8.96E-08	0.00E+00	8.46E-07	2.87E-08	9.22E-08	1.41E-08	1.35E-07	1.26E-09	7.04E-09	8.30E-10	9.13E-09
1668	576934.71	4194145.55	2.03E-07	6.30E-07	9.86E-08	0.00E+00	9.31E-07	3.16E-08	1.02E-07	1.56E-08	1.49E-07	1.39E-09	7.75E-09	9.14E-10	1.00E-08
1669	576941.33	4194130.39	2.19E-07	6.82E-07	1.07E-07	0.00E+00	1.01E-06	3.42E-08	1.10E-07	1.69E-08	1.61E-07	1.50E-09	8.40E-09	9.90E-10	1.09E-08
1670	576961.19	4194084.93	2.51E-07	7.81E-07	1.22E-07	0.00E+00	1.15E-06	3.91E-08	1.26E-07	1.93E-08	1.84E-07	1.72E-09	9.61E-09	1.13E-09	1.25E-08
1671	576916.16	4194191.93	1.44E-07	4.47E-07	6.99E-08	0.00E+00	6.60E-07	2.24E-08	7.20E-08	1.10E-08	1.05E-07	9.83E-10	5.50E-09	6.48E-10	7.13E-09
1672	577225.42	4194274.61	7.15E-06	2.22E-05	3.48E-06	0.00E+00	3.29E-05	1.11E-06	3.58E-06	5.49E-07	5.25E-06	4.89E-08	2.73E-07	3.22E-08	3.55E-07
1673	577234.32	4194276.73	9.68E-06	3.01E-05	4.71E-06	0.00E+00	4.45E-05	1.51E-06	4.85E-06	7.44E-07	7.10E-06	6.62E-08	3.70E-07	4.36E-08	4.80E-07
1674	577216.91	4194279.86	5.27E-06	1.64E-05	2.57E-06	0.00E+00	2.42E-05	8.21E-07	2.64E-06	4.05E-07	3.87E-06	3.61E-08	2.02E-07	2.38E-08	2.62E-07
1675	577232	4194286.46	8.66E-06	2.69E-05	4.22E-06	0.00E+00	3.98E-05	1.35E-06	4.34E-06	6.66E-07	6.36E-06	5.93E-08	3.31E-07	3.91E-08	4.30E-07
1676	577214.59	4194289.59	4.57E-06	1.42E-05	2.22E-06	0.00E+00	2.10E-05	7.12E-07	2.29E-06	3.51E-07	3.35E-06	3.12E-08	1.75E-07	2.06E-08	2.27E-07
1677	577200.99	4194273.11	3.49E-06	1.08E-05	1.70E-06	0.00E+00	1.60E-05	5.43E-07	1.75E-06	2.68E-07	2.56E-06	2.38E-08	1.33E-07	1.57E-08	1.73E-07
1678	577229.67	4194296.18	7.04E-06	2.19E-05	3.43E-06	0.00E+00	3.23E-05	1.10E-06	3.53E-06	5.41E-07	5.16E-06	4.81E-08	2.69E-07	3.17E-08	3.49E-07
1679	577212.26	4194299.31	3.31E-06	1.03E-05	1.61E-06	0.00E+00	1.52E-05	5.16E-07	1.66E-06	2.55E-07	2.43E-06	2.27E-08	1.27E-07	1.49E-08	1.64E-07
1680	577199.89	4194290.37	2.64E-06	8.20E-06	1.28E-06	0.00E+00	1.21E-05	4.11E-07	1.32E-06	2.03E-07	1.94E-06	1.80E-08	1.01E-07	1.19E-08	1.31E-07
1681	577192.48	4194278.36	2.57E-06	7.98E-06	1.25E-06	0.00E+00	1.18E-05	4.00E-07	1.29E-06	1.97E-07	1.88E-06	1.76E-08	9.82E-08	1.16E-08	1.27E-07
1682	577190.02	4194263.3	3.01E-06	9.35E-06	1.46E-06	0.00E+00	1.38E-05	4.69E-07	1.51E-06	2.31E-07	2.21E-06	2.06E-08	1.15E-07	1.36E-08	1.49E-07
1683	577209.94	4194309.04	1.85E-06	5.75E-06	9.01E-07	0.00E+00	8.50E-06	2.88E-07	9.27E-07	1.42E-07	1.36E-06	1.27E-08	7.08E-08	8.34E-09	9.18E-08
1684	577197.57	4194300.1	1.82E-06	5.66E-06	8.86E-07	0.00E+00	8.36E-06	2.84E-07	9.12E-07	1.40E-07	1.34E-06	1.25E-08	6.96E-08	8.21E-09	9.03E-08
1685	577183.97	4194283.62	1.86E-06	5.79E-06	9.06E-07	0.00E+00	8.55E-06	2.90E-07	9.33E-07	1.43E-07	1.37E-06	1.27E-08	7.12E-08	8.39E-09	9.23E-08
1686	577181.51	4194268.55	2.35E-06	7.32E-06	1.15E-06	0.00E+00	1.08E-05	3.67E-07	1.18E-06	1.81E-07	1.73E-06	1.61E-08	9.00E-08	1.06E-08	1.17E-07
1687	577195.25	4194309.82	1.13E-06	3.50E-06	5.49E-07	0.00E+00	5.18E-06	1.76E-07	5.65E-07	8.66E-08	8.27E-07	7.71E-09	4.31E-08	5.08E-09	5.59E-08
1688	577182.88	4194300.88	1.09E-06	3.40E-06	5.32E-07	0.00E+00	5.03E-06	1.70E-07	5.48E-07	8.41E-08	8.03E-07	7.48E-09	4.18E-08	4.93E-09	5.43E-08
1689	577175.46	4194288.87	1.32E-06	4.09E-06	6.41E-07	0.00E+00	6.05E-06	2.05E-07	6.60E-07	1.01E-07	9.66E-07	9.00E-09	5.03E-08	5.93E-09	6.53E-08
1690	577173	4194273.8	1.79E-06	5.57E-06	8.73E-07	0.00E+00	8.24E-06	2.79E-07	8.98E-07	1.38E-07	1.32E-06	1.23E-08	6.86E-08	8.08E-09	8.89E-08
1691	577166.75	4194292.87	9.63E-07	2.99E-06	4.69E-07	0.00E+00	4.42E-06	1.50E-07	4.82E-07	7.40E-08	7.06E-07	6.58E-09	3.68E-08	4.34E-09	4.77E-08
1692	577163.88	4194275.29	1.44E-06	4.49E-06	7.03E-07	0.00E+00	6.64E-06	2.25E-07	7.24E-07	1.11E-07	1.06E-06	9.88E-09	5.53E-08	6.51E-09	7.16E-08
1693	577158.27	4194298.3	6.96E-07	2.16E-06	3.39E-07	0.00E+00	3.20E-06	1.09E-07	3.49E-07	5.35E-08	5.11E-07	4.76E-09	2.66E-08	3.14E-09	3.45E-08
1694	577155.46	4194281.08	1.07E-06	3.31E-06	5.19E-07	0.00E+00	4.90E-06	1.66E-07	5.34E-07	8.19E-08	7.82E-07	7.29E-09	4.08E-08	4.81E-09	5.29E-08
1695	577152.65	4194263.86	1.44E-06	4.48E-06	7.02E-07	0.00E+00	6.63E-06	2.25E-07	7.23E-07	1.11E-07	1.06E-06	9.87E-09	5.52E-08	6.51E-09	7.16E-08
1696	577147.02	4194286.74	7.94E-07	2.47E-06	3.86E-07	0.00E+00	3.65E-06	1.24E-07	3.98E-07	6.10E-08	5.83E-07	5.43E-09	3.04E-08	3.58E-09	3.94E-08
1697	577144.26	4194269.79	1.10E-06	3.43E-06	5.37E-07	0.00E+00	5.07E-06	1.72E-07	5.52E-07	8.47E-08	8.09E-07	7.54E-09	4.22E-08	4.97E-09	5.47E-08
1698	577138.56	4194292.31	5.95E-07	1.85E-06	2.90E-07	0.00E+00	2.73E-06	9.27E-08	2.98E-07	4.57E-08	4.37E-07	4.07E-09	2.28E-08	2.68E-09	2.95E-08
1699	577135.83	4194275.57	8.44E-07	2.62E-06	4.11E-07	0.00E+00	3.88E-06	1.31E-07	4.23E-07	6.48E-08	6.19E-07	5.77E-09	3.23E-08	3.80E-09	4.18E-08
1700	577133.1	4194258.83	1.08E-06	3.36E-06	5.26E-07	0.00E+00	4.97E-06	1.68E-07	5.42E-07	8.31E-08	7.93E-07	7.39E-09	4.14E-08	4.88E-09	5.36E-08
1701	577127.39	4194281.24	6.52E-07	2.03E-06	3.18E-07	0.00E+00	3.00E-06	1.02E-07	3.27E-07	5.01E-08	4.79E-07	4.46E-09	2.50E-08	2.94E-09	3.24E-08
1702	577124.69	4194264.67	8.55E-07	2.66E-06	4.16E-07	0.00E+00	3.93E-06	1.33E-07	4.29E-07	6.57E-08	6.27E-07	5.85E-09	3.27E-08	3.86E-09	4.24E-08
1703	577118.94	4194286.84	5.11E-07	1.59E-06	2.49E-07	0.00E+00	2.35E-06	7.96E-08	2.56E-07	3.93E-08	3.75E-07	3.49E-09	1.95E-08	2.30E-09	2.53E-08
1704	577116.26	4194270.4	6.76E-07	2.10E-06	3.29E-07	0.00E+00	3.11E-06	1.05E-07	3.39E-07	5.19E-08	4.96E-07	4.62E-09	2.59E-08	3.05E-09	3.35E-08
1705	577113.58	4194253.96	8.37E-07	2.60E-06	4.08E-07	0.00E+00	3.85E-06	1.30E-07	4.20E-07	6.44E-08	6.14E-07	5.73E-09	3.20E-08	3.78E-09	4.15E-08
1706	577108.42	4194279.76	5.06E-07	1.57E-06	2.46E-07	0.00E+00	2.32E-06	7.88E-08	2.53E-07	3.89E-08	3.71E-07	3.46E-09	1.93E-08	2.28E-09	2.51E-08
1707	577106.97	4194270.86	5.82E-07	1.81E-06	2.83E-07	0.00E+00	2.67E-06	9.06E-08	2.92E-07	4.47E-08	4.27E-07	3.98E-09	2.23E-08	2.62E-09	2.89E-08
1708	577104.07	4194253.05	7.31E-07	2.27E-06	3.56E-07	0.00E+00	3.36E-06	1.14E-07	3.66E-07	5.62E-08	5.36E-07	5.00E-09	2.80E-08	3.30E-09	3.63E-08
1709	577098.59	4194276.91	4.67E-07	1.45E-06	2.27E-07	0.00E+00	2.15E-06	7.28E-08	2.34E-07	3.59E-08	3.43E-07	3.19E-09	1.79E-08	2.11E-09	2.32E-08
1710	577097.16	4194268.12	5.32E-07	1.65E-06	2.59E-07	0.00E+00	2.45E-06	8.29E-08	2.67E-07	4.09E-08	3.90E-07	3.64E-09	2.04E-08	2.40E-09	2.64E-08
1711	577094.29	4194250.55	6.53E-07	2.03E-06	3.18E-07	0.00E+00	3.00E-06	1.02E-07	3.27E-07	5.02E-08	4.79E-07	4.47E-09	2.50E-08	2.95E-09	3.24E-08
1712	577087.36	4194265.46	4.89E-07	1.52E-06	2.38E-07	0.00E+00	2.25E-06	7.62E-08	2.45E-07	3.76E-08	3.59E-07	3.35E-09	1.87E-08	2.21E-09	2.43E-08
1713	577084.52	4194248.07	5.86E-07	1.82E-06	2.85E-07	0.00E+00	2.69E-06	9.13E-08	2.94E-07	4.50E-08	4.30E-07	4.01E-09	2.24E-08	2.64E-09	2.91E-08
1714	577077.57	4194262.85	4.49E-07	1.39E-06	2.18E-07	0.00E+00	2.06E-06	6.99E-08	2.25E-07	3.45E-08	3.29E-07	3.07E-09	1.72E-08	2.02E-09	2.23E-08
1715	577074.76	4194245.63	5.28E-07	1.64E-06	2.57E-07	0.00E+00	2.42E-06	8.22E-08	2.64E-07	4.06E-08	3.87E-07	3.61E-09	2.02E-08	2.38E-09	2.62E-08
1716	577067.78	4194260.28	4.09E-07	1.27E-06	1.99E-07	0.00E+00	1.88E-06	6.37E-08	2.05E-07	3.14E-08	3.00E-07	2.79E-09	1.56E-08	1.84E-09	2.03E-08
1717	577065	4194243.2	4.71E-07	1.47E-06	2.30E-07	0.00E+00	2.17E-06	7.35E-08	2.36E-07	3.62E-08	3.46E-07	3.22E-09	1.80E-08	2.13E-09	2.34E-08
1718	577059.39	4194266.23	3.40E-07	1.06E-06	1.65E-07	0.00E+00	1.56E-06	5.29E-08	1.70E-07	2.61E-08	2.49E-07	2.32E-09	1.30E-08	1.53E-09	1.68E-08
1719	577056.62	4194249.28	3.98E-07	1.24E-06	1.94E-07	0.00E+00	1.83E-06	6.19E-08	1.99E-07	3.06E-08	2.92E-07	2.72E-09	1.52E-08	1.79E-09	1.97E-08
1720	577050.04	4194266.3	3.03E-07	9.42E-07	1.48E-07	0.00E+00	1.39E-06	4.72E-08	1.52E-07	2.33E-08	2.22E-07	2.07E-09	1.16E-08	1.37E-09	1.50E-08
1721	577048.58	4194257.35	3.30E-07	1.02E-06	1.60E-07	0.00E+00	1.51E-06	5.14E-08	1.65E-07	2.53E-08	2.42E-07	2.25E-09	1.26E-08	1.49E-09	1.64E-08
1722	577045.66	4194239.46	3.79E-07	1.18E-06	1.84E-07	0.00E+00	1.74E-06	5.90E-08	1.90E-07	2.91E-08	2.78E-07	2.59E-09	1.45E-08	1.71E-09	1.88E-08
1723	577044.2	4194230.52	4.00E-07	1.24E-06	1.95E-07	0.00E+00	1.84E-06	6.23E-08	2.01E-07	3.08E-08	2.94E-07	2.74E-09	1.53E-08	1.80E-09	1.98E-08
1724	577040.23	4194263.61	2.77E-07	8.61E-07	1.35E-07	0.00E+00	1.27E-06	4.32E-08	1.39E-07	2.13E-08	2.03E-07	1.89E-09	1.06E-08	1.25E-09	1.37E-08
1725	577037.34	4194245.88	3.20E-07	9.96E-07	1.56E-07	0.00E+00	1.47E-06	4.99E-08	1.61E-07	2.46E-08	2.35E-07	2.19E-09	1.23E-08	1.44E-09	1.59E-08
1726	577035.9	4194237.02	3.41E-07	1.06E-06	1.66E-07	0.00E+00	1.57E-06	5.32E-08	1.71E-07	2.62E-08	2.50E-07	2.33E-09	1.31E-08	1.54E-09	1.69E-08
1727	577030.43	4194260.96	2.51E-07	7.80E-07	1.22E-07	0.00E+00	1.15E-06	3.91E-08	1.26E-07	1.93E-08	1.84E-07	1.72E-09	9.61E-09	1.13E-09	1.25E-08
1728	577027.57	4194243.38	2.90E-07	9.01E-07	1.41E-07	0.00E+00	1.33E-06	4.52E-08	1.45E-07	2.23E-08	2.13E-07	1.98E-09	1.11E-08	1.31E-09	1.44E-08
1729	577026.14	4194234.59	3.09E-07	9.59E-07	1.50E-07	0.00E+00	1.42E-06	4.81E-08	1.55E-07	2.37E-08	2.26E-07	2.11E-09	1.18E-08	1.39E-09	1.53E-08
1730	577017.8	4194240.9	2.64E-07	8.19E-07	1.28E-07	0.00E+00	1.21E-06	4.11E-08	1.32E-07	2.03E-08	1.93E-07	1.80E-09	1.01E-08	1.19E-09	1.31E-08
1731	577009.45	4194247.11	2.25E-07	7.00E-07	1.10E-07	0.00E+00	1.03E-06	3.51E-08	1.13E-07	1.73E-08	1.65E-07	1.54E-09	8.61E-09	1.01E-09	1.12E-08
1732	577006.62	4194229.78	2.56E-07	7.96E-07	1.25E-07	0.00E+00	1.18E-06	3.99E-08	1.28E-07	1.97E-08	1.88E-07	1.75E-09	9.79E-09	1.15E-09	1.27E-08
1733	576999.67	4194244.61	2.07E-07	6.42E-07	1.01E-07	0.00E+00	9.49E-07	3.22E-08	1.04E-07	1.59E-08	1.52E-07	1.41E-09	7.90E-09	9.32E-10	1.02E-08
1734	576996.87	4194227.39	2.35E-07	7.29E-07	1.14E-07	0.00E+00	1.08E-06	3.66E-08	1.18E-07	1.80E-08	1.72E-07	1.61E-09	8.98E-09	1.06E-09	1.16E-08
1735	576990.17	4194243.77	1.88E-07	5.84E-07	9.15E-08	0.00E+00	8.63E-07	2.93E-08	9.42E-08	1.44E-08	1.38E-07	1.29E-09	7.19E-09	8.47E-10	9.32E-09
1736	576988.71	4194234.8	2.01E-07	6.26E-07	9.81E-08	0.00E+00	9.26E-07	3.14E-08	1.01E-07	1.55E-08	1.48E-07	1.38E-09	7.71E-09	9.08E-10	9.99E-09
1737	576987.25	4194225.83	2.15E-07	6.68E-07	1.05E-07	0.00E+00	9.87E-07	3.35E-08	1.08E-07	1.65E-08	1.58E-07	1.47E-09	8.22E-09	9.69E-10	1.07E-08
1738	576980.39	4194241.23	1.74E-07	5.40E-07	8.46E-08	0.00E+00	7.99E-07	2.71E-08	8.71E-08	1.34E-08	1.28E-07	1.19E-09	6.65E-09	7.84E-10	8.62E-09
1739	576978.94	4194232.32	1.87E-07	5.80E-07	9.09E-08	0.00E+00	8.58E-07	2.91E-08	9.35E-08	1.43E-08	1.37E-07	1.28E-09	7.14E-09	8.42E-10	9.26E-09

1740	576976.04	4194214.52	2.11E-07	6.55E-07	1.03E-07	0.00E+00	9.68E-07	3.28E-08	1.06E-07	1.62E-08	1.55E-07	1.44E-09	8.06E-09	9.50E-10	1.04E-08
1741	576969.17	4194229.86	1.74E-07	5.40E-07	8.46E-08	0.00E+00	7.99E-07	2.71E-08	8.71E-08	1.34E-08	1.28E-07	1.19E-09	6.65E-09	7.84E-10	8.62E-09
1742	576966.29	4194212.18	1.96E-07	6.08E-07	9.52E-08	0.00E+00	8.99E-07	3.05E-08	9.80E-08	1.50E-08	1.43E-07	1.34E-09	7.48E-09	8.82E-10	9.70E-09
1743	576960.84	4194236.21	1.52E-07	4.71E-07	7.38E-08	0.00E+00	6.96E-07	2.36E-08	7.60E-08	1.17E-08	1.11E-07	1.04E-09	5.80E-09	6.84E-10	7.52E-09
1744	576957.98	4194218.63	1.72E-07	5.36E-07	8.39E-08	0.00E+00	7.92E-07	2.69E-08	8.64E-08	1.32E-08	1.26E-07	1.18E-09	6.59E-09	7.77E-10	8.55E-09
1745	577171.61	4194539.35	2.51E-07	7.79E-07	1.22E-07	0.00E+00	1.15E-06	3.90E-08	1.26E-07	1.93E-08	1.84E-07	1.71E-09	9.58E-09	1.13E-09	1.24E-08
1746	577180.51	4194541.47	2.71E-07	8.42E-07	1.32E-07	0.00E+00	1.24E-06	4.22E-08	1.36E-07	2.08E-08	1.99E-07	1.85E-09	1.04E-08	1.22E-09	1.34E-08
1747	577153.22	4194541.76	1.98E-07	6.16E-07	9.64E-08	0.00E+00	9.10E-07	3.09E-08	9.93E-08	1.52E-08	1.45E-07	1.35E-09	7.58E-09	8.93E-10	9.83E-09
1748	577146.04	4194536.58	1.80E-07	5.61E-07	8.78E-08	0.00E+00	8.29E-07	2.81E-08	9.04E-08	1.39E-08	1.32E-07	1.23E-09	6.90E-09	8.14E-10	8.95E-09
1749	576951.07	4194233.73	1.42E-07	4.41E-07	6.91E-08	0.00E+00	6.52E-07	2.21E-08	7.11E-08	1.09E-08	1.04E-07	9.71E-10	5.43E-09	6.40E-10	7.04E-09
1750	576948.22	4194216.25	1.61E-07	4.99E-07	7.82E-08	0.00E+00	7.38E-07	2.50E-08	8.05E-08	1.23E-08	1.18E-07	1.10E-09	6.15E-09	7.24E-10	7.97E-09
1751	577169.29	4194549.08	2.37E-07	7.36E-07	1.15E-07	0.00E+00	1.09E-06	3.69E-08	1.19E-07	1.82E-08	1.74E-07	1.62E-09	9.05E-09	1.07E-09	1.17E-08
1752	577178.19	4194551.2	2.54E-07	7.89E-07	1.23E-07	0.00E+00	1.17E-06	3.95E-08	1.27E-07	1.95E-08	1.86E-07	1.73E-09	9.70E-09	1.14E-09	1.26E-08
1753	577150.93	4194551.52	1.88E-07	5.84E-07	9.15E-08	0.00E+00	8.63E-07	2.93E-08	9.42E-08	1.44E-08	1.38E-07	1.29E-09	7.19E-09	8.47E-10	9.32E-09
1754	577136.66	4194541.2	1.57E-07	4.88E-07	7.64E-08	0.00E+00	7.22E-07	2.45E-08	7.87E-08	1.21E-08	1.15E-07	1.07E-09	6.01E-09	7.08E-10	7.79E-09
1755	577122.38	4194530.88	1.26E-07	3.90E-07	6.11E-08	0.00E+00	5.77E-07	1.96E-08	6.29E-08	9.65E-09	9.21E-08	8.59E-10	4.80E-09	5.66E-10	6.23E-09
1756	576941.31	4194231.27	1.33E-07	4.13E-07	6.47E-08	0.00E+00	6.11E-07	2.07E-08	6.66E-08	1.02E-08	9.75E-08	9.09E-10	5.08E-09	5.99E-10	6.59E-09
1757	576938.47	4194213.88	1.50E-07	4.66E-07	7.29E-08	0.00E+00	6.88E-07	2.33E-08	7.51E-08	1.15E-08	1.10E-07	1.02E-09	5.73E-09	6.75E-10	7.43E-09
1758	577166.97	4194558.8	2.23E-07	6.94E-07	1.09E-07	0.00E+00	1.03E-06	3.48E-08	1.12E-07	1.72E-08	1.64E-07	1.53E-09	8.54E-09	1.01E-09	1.11E-08
1759	577175.87	4194560.93	2.37E-07	7.37E-07	1.15E-07	0.00E+00	1.09E-06	3.69E-08	1.19E-07	1.82E-08	1.74E-07	1.62E-09	9.07E-09	1.07E-09	1.18E-08
1760	577148.37	4194561.07	1.77E-07	5.49E-07	8.60E-08	0.00E+00	8.12E-07	2.75E-08	8.85E-08	1.36E-08	1.30E-07	1.21E-09	6.76E-09	7.97E-10	8.76E-09
1761	577141	4194555.74	1.63E-07	5.08E-07	7.96E-08	0.00E+00	7.51E-07	2.55E-08	8.19E-08	1.26E-08	1.20E-07	1.12E-09	6.25E-09	7.37E-10	8.11E-09
1762	577126.24	4194545.08	1.34E-07	4.16E-07	6.52E-08	0.00E+00	6.16E-07	2.09E-08	6.71E-08	1.03E-08	9.83E-08	9.16E-10	5.12E-09	6.04E-10	6.64E-09
1763	577118.87	4194539.74	1.19E-07	3.71E-07	5.81E-08	0.00E+00	5.48E-07	1.86E-08	5.98E-08	9.17E-09	8.75E-08	8.16E-10	4.56E-09	5.38E-10	5.92E-09
1764	577104.12	4194529.08	9.29E-08	2.89E-07	4.52E-08	0.00E+00	4.27E-07	1.45E-08	4.66E-08	7.14E-09	6.82E-08	6.36E-10	3.56E-09	4.19E-10	4.61E-09
1765	577096.74	4194523.75	8.32E-08	2.59E-07	4.05E-08	0.00E+00	3.82E-07	1.30E-08	4.17E-08	6.39E-09	6.10E-08	5.69E-10	3.18E-09	3.75E-10	4.13E-09
1766	576931.76	4194230.15	1.23E-07	3.83E-07	6.01E-08	0.00E+00	5.67E-07	1.92E-08	6.18E-08	9.48E-09	9.05E-08	8.44E-10	4.72E-09	5.56E-10	6.12E-09
1767	576930.3	4194221.16	1.32E-07	4.09E-07	6.41E-08	0.00E+00	6.05E-07	2.05E-08	6.60E-08	1.01E-08	9.66E-08	9.01E-10	5.04E-09	5.94E-10	6.53E-09
1768	576928.83	4194212.18	1.39E-07	4.33E-07	6.79E-08	0.00E+00	6.40E-07	2.17E-08	6.99E-08	1.07E-08	1.02E-07	9.53E-10	5.33E-09	6.29E-10	6.91E-09
1769	576927.37	4194203.2	1.47E-07	4.57E-07	7.15E-08	0.00E+00	6.75E-07	2.29E-08	7.36E-08	1.13E-08	1.08E-07	1.00E-09	5.62E-09	6.62E-10	7.29E-09
1770	577155.75	4194566.4	1.89E-07	5.89E-07	9.22E-08	0.00E+00	8.71E-07	2.95E-08	9.49E-08	1.46E-08	1.39E-07	1.30E-09	7.25E-09	8.54E-10	9.40E-09
1771	577164.65	4194568.53	2.08E-07	6.47E-07	1.01E-07	0.00E+00	9.56E-07	3.24E-08	1.04E-07	1.60E-08	1.53E-07	1.42E-09	7.96E-09	9.38E-10	1.03E-08
1772	577173.55	4194570.65	2.21E-07	6.86E-07	1.07E-07	0.00E+00	1.01E-06	3.44E-08	1.11E-07	1.70E-08	1.62E-07	1.51E-09	8.44E-09	9.95E-10	1.09E-08
1773	577146.09	4194570.83	1.66E-07	5.16E-07	8.08E-08	0.00E+00	7.63E-07	2.59E-08	8.32E-08	1.28E-08	1.22E-07	1.14E-09	6.35E-09	7.49E-10	8.24E-09
1774	577138.76	4194565.53	1.55E-07	4.81E-07	7.54E-08	0.00E+00	7.12E-07	2.41E-08	7.76E-08	1.19E-08	1.14E-07	1.06E-09	5.93E-09	6.99E-10	7.68E-09
1775	577131.43	4194560.23	1.43E-07	4.44E-07	6.95E-08	0.00E+00	6.56E-07	2.22E-08	7.16E-08	1.10E-08	1.05E-07	9.76E-10	5.46E-09	6.44E-10	7.08E-09
1776	577116.77	4194549.63	1.16E-07	3.61E-07	5.65E-08	0.00E+00	5.33E-07	1.81E-08	5.82E-08	8.92E-09	8.52E-08	7.94E-10	4.44E-09	5.23E-10	5.76E-09
1777	577102.1	4194539.03	9.21E-08	2.86E-07	4.48E-08	0.00E+00	4.23E-07	1.43E-08	4.61E-08	7.08E-09	6.76E-08	6.30E-10	3.52E-09	4.15E-10	4.57E-09
1778	577094.77	4194533.73	8.27E-08	2.57E-07	4.02E-08	0.00E+00	3.80E-07	1.29E-08	4.14E-08	6.35E-09	6.07E-08	5.65E-10	3.16E-09	3.73E-10	4.10E-09
1779	577080.11	4194523.13	6.64E-08	2.07E-07	3.23E-08	0.00E+00	3.05E-07	1.04E-08	3.33E-08	5.11E-09	4.88E-08	4.54E-10	2.54E-09	3.00E-10	3.30E-09
1780	577065.45	4194512.53	5.49E-08	1.71E-07	2.67E-08	0.00E+00	2.52E-07	8.56E-09	2.75E-08	4.22E-09	4.03E-08	3.76E-10	2.10E-09	2.48E-10	2.73E-09
1781	576920.53	4194218.72	1.24E-07	3.84E-07	6.01E-08	0.00E+00	5.68E-07	1.92E-08	6.19E-08	9.49E-09	9.06E-08	8.45E-10	4.73E-09	5.57E-10	6.13E-09
1782	576919.08	4194209.79	1.31E-07	4.06E-07	6.36E-08	0.00E+00	6.00E-07	2.03E-08	6.54E-08	1.00E-08	9.58E-08	8.93E-10	4.99E-09	5.89E-10	6.48E-09
1783	577162.32	4194578.26	1.93E-07	6.01E-07	9.41E-08	0.00E+00	8.88E-07	3.01E-08	9.69E-08	1.49E-08	1.42E-07	1.32E-09	7.40E-09	8.72E-10	9.59E-09
1784	577171.22	4194580.38	2.06E-07	6.40E-07	1.00E-07	0.00E+00	9.46E-07	3.21E-08	1.03E-07	1.58E-08	1.51E-07	1.41E-09	7.87E-09	9.28E-10	1.02E-08
1785	577190.1	4194291.88	1.81E-06	5.61E-06	8.79E-07	0.00E+00	8.30E-06	2.81E-07	9.05E-07	1.39E-07	1.32E-06	1.23E-08	6.91E-08	8.14E-09	8.96E-08
1786	577165.45	4194261.78	1.93E-06	5.98E-06	9.37E-07	0.00E+00	8.85E-06	3.00E-07	9.65E-07	1.48E-07	1.41E-06	1.32E-08	7.37E-08	8.68E-09	9.55E-08
1787	577212.18	4194271.53	4.83E-06	1.50E-05	2.35E-06	0.00E+00	2.22E-05	7.53E-07	2.42E-06	3.71E-07	3.55E-06	3.30E-08	1.85E-07	2.18E-08	2.40E-07
1788	577161.78	4194221.22	2.28E-06	7.10E-06	1.11E-06	0.00E+00	1.05E-05	3.56E-07	1.14E-06	1.75E-07	1.68E-06	1.56E-08	8.73E-08	1.03E-08	1.13E-07
1789	577191.77	4194546.01	2.93E-07	9.12E-07	1.43E-07	0.00E+00	1.35E-06	4.57E-08	1.47E-07	2.26E-08	2.15E-07	2.01E-09	1.12E-08	1.32E-09	1.46E-08
1790	577201.1	4194548.24	3.17E-07	9.86E-07	1.54E-07	0.00E+00	1.46E-06	4.94E-08	1.59E-07	2.44E-08	2.33E-07	2.17E-09	1.21E-08	1.43E-09	1.57E-08
1791	577210.43	4194550.47	3.42E-07	1.06E-06	1.67E-07	0.00E+00	1.57E-06	5.33E-08	1.71E-07	2.63E-08	2.51E-07	2.34E-09	1.31E-08	1.54E-09	1.70E-08
1792	577219.76	4194552.7	3.67E-07	1.14E-06	1.79E-07	0.00E+00	1.69E-06	5.72E-08	1.84E-07	2.82E-08	2.69E-07	2.51E-09	1.40E-08	1.65E-09	1.82E-08
1793	577229.09	4194554.93	3.92E-07	1.22E-06	1.91E-07	0.00E+00	1.80E-06	6.11E-08	1.96E-07	3.01E-08	2.88E-07	2.68E-09	1.50E-08	1.77E-09	1.94E-08
1794	577238.42	4194557.16	4.17E-07	1.30E-06	2.03E-07	0.00E+00	1.91E-06	6.49E-08	2.09E-07	3.20E-08	3.06E-07	2.85E-09	1.59E-08	1.88E-09	2.07E-08
1795	577247.75	4194559.39	4.40E-07	1.37E-06	2.14E-07	0.00E+00	2.02E-06	6.86E-08	2.21E-07	3.38E-08	3.23E-07	3.01E-09	1.68E-08	1.99E-09	2.18E-08
1796	577189.45	4194555.74	2.72E-07	8.46E-07	1.32E-07	0.00E+00	1.25E-06	4.24E-08	1.36E-07	2.09E-08	2.00E-07	1.86E-09	1.04E-08	1.23E-09	1.35E-08
1797	577198.78	4194557.97	2.91E-07	9.06E-07	1.42E-07	0.00E+00	1.34E-06	4.54E-08	1.46E-07	2.24E-08	2.14E-07	1.99E-09	1.12E-08	1.31E-09	1.45E-08
1798	577208.11	4194560.2	3.14E-07	9.75E-07	1.53E-07	0.00E+00	1.44E-06	4.89E-08	1.57E-07	2.41E-08	2.30E-07	2.14E-09	1.20E-08	1.41E-09	1.56E-08
1799	577217.44	4194562.43	3.36E-07	1.04E-06	1.63E-07	0.00E+00	1.54E-06	5.23E-08	1.68E-07	2.58E-08	2.46E-07	2.30E-09	1.28E-08	1.51E-09	1.66E-08
1800	577226.77	4194564.66	3.58E-07	1.11E-06	1.74E-07	0.00E+00	1.64E-06	5.57E-08	1.79E-07	2.75E-08	2.62E-07	2.45E-09	1.37E-08	1.61E-09	1.77E-08
1801	577236.1	4194566.89	3.80E-07	1.18E-06	1.85E-07	0.00E+00	1.75E-06	5.92E-08	1.91E-07	2.92E-08	2.79E-07	2.60E-09	1.45E-08	1.71E-09	1.89E-08
1802	577245.43	4194569.12	4.02E-07	1.25E-06	1.96E-07	0.00E+00	1.85E-06	6.26E-08	2.01E-07	3.09E-08	2.95E-07	2.75E-09	1.54E-08	1.81E-09	1.99E-08
1803	577187.12	4194565.46	2.52E-07	7.85E-07	1.23E-07	0.00E+00	1.16E-06	3.93E-08	1.27E-07	1.94E-08	1.85E-07	1.73E-09	9.66E-09	1.14E-09	1.25E-08
1804	577196.45	4194567.69	2.69E-07	8.35E-07	1.31E-07	0.00E+00	1.24E-06	4.19E-08	1.35E-07	2.07E-08	1.97E-07	1.84E-09	1.03E-08	1.21E-09	1.33E-08
1805	577205.78	4194569.92	2.89E-07	8.97E-07	1.40E-07	0.00E+00	1.33E-06	4.50E-08	1.45E-07	2.22E-08	2.12E-07	1.97E-09	1.10E-08	1.30E-09	1.43E-08
1806	577215.11	4194572.15	3.08E-07	9.58E-07	1.50E-07	0.00E+00	1.42E-06	4.80E-08	1.54E-07	2.37E-08	2.26E-07	2.11E-09	1.18E-08	1.39E-09	1.53E-08
1807	577224.44	4194574.38	3.27E-07	1.02E-06	1.59E-07	0.00E+00	1.50E-06	5.10E-08	1.64E-07	2.52E-08	2.40E-07	2.24E-09	1.25E-08	1.48E-09	1.62E-08
1808	577233.77	4194576.61	3.48E-07	1.08E-06	1.69E-07	0.00E+00	1.60E-06	5.42E-08	1.74E-07	2.67E-08	2.55E-07	2.38E-09	1.33E-08	1.57E-09	1.73E-08
1809	577243.1	4194578.84	3.68E-07	1.14E-06	1.79E-07	0.00E+00	1.69E-06	5.73E-08	1.84E-07	2.83E-08	2.70E-07	2.52E-09	1.41E-08	1.66E-09	1.82E-08
1810	577184.8	4194575.19	2.35E-07	7.30E-07	1.14E-07	0.00E+00	1.08E-06	3.66E-08	1.18E-07	1.80E-08	1.72E-07	1.61E-09	8.98E-09	1.06E-09	1.16E-08
1811	577194.13	4194577.42	2.49E-07	7.73E-07	1.21E-07	0.00E+00	1.14E-06	3.88E-08	1.25E-07	1.91E-08	1.83E-07	1.70E-09	9.51E-09	1.12E-09	1.23E-08
1812	577203.46	4194579.65	2.66E-07	8.28E-07	1.30E-07	0.00E+00	1.22E-06	4.15E-08	1.34E-07	2.05E-08	1.95E-07	1.82E-09	1.02E-08	1.20E-09	1.32E-08
1813	577212.79	4194581.88	2.84E-07	8.82E-07	1.38E-07	0.00E+00	1.30E-06	4.42E-08	1.42E-07	2.18E-08	2.08E-07	1.94E-09	1.09E-08	1.28E-09	1.41E-08
1814	577222.12	4194584.11	3.01E-07	9.35E-07	1.46E-07	0.00E+00	1.38E-06	4.69E-08	1.51E-07	2.31E-08	2.21E-07	2.06E-09	1.15E-08	1.36E-09	1.49E-08
1815	577231.45	4194586.34	3.19E-07	9.92E-07	1.55E-07	0.00E+00	1.47E-06	4.97E-08	1.60E-07	2.45E-08	2.34E-07	2.18E-09	1.22E-08	1.44E-09	1.58E-08
1816	577240.78	4194588.57	3.37E-07	1.05E-06	1.64E-07	0.00E+00	1.55E-06	5.25E-08	1.69E-07	2.59E-08	2.47E-07	2.31E-09	1.29E-08	1.52E-09	1.67E-08
1817	577182.47	4194584.91	2.19E-07	6.80E-07	1.07E-07	0.00E+00	1.01E-06	3.41E-08	1.10E-07	1.68E-08	1.61E-07	1.50E-09	8.37E-09	9.87E-10	1.09E-08
1818	577191.8	4194587.14	2.31E-07	7.19E-07	1.13E-07	0.00E+00	1.06E-06	3.61E-08	1.16E-07	1.78E-08	1.70E-07	1.58E-09	8.86E-09	1.04E-09	1.15E-08
1819	577201.13	4194589.37	2.47E-07	7.67E-07	1.20E-07	0.00E+00	1.13E-06	3.84E-08	1.24E-07	1.90E-08	1.81E-07	1.69E-09	9.43E-09	1.11E-09	1.22E-08
1820	577210.46	4194591.6	2.62E-07	8.15E-07	1.28E-07	0.00E+00	1.20E-06	4.08E-08	1.31E-07	2.01E-08	1.92E-07	1.79E-09	1.00E-08	1.18E-09	1.30E-08
1821	577219.79	4194593.83	2.77E-07	8.61E-07	1.35E-07	0.00E+00	1.27E-06	4.31E-08	1.39E-07	2.13E-08	2.03E-07	1.89E-09	1.06E-08	1.25E-09	1.37E-08
1822	577229.12	4194596.06	2.93E-07	9.10E-07	1.42E-07	0.00E+00	1.34E-06	4.56E-08	1.47E-07	2.25E-08	2.15E-07	2.00E-09	1.12E-08	1.32E-09	1.45E-08

1823	577238.45	4194598.29	3.09E-07	9.61E-07	1.50E-07	0.00E+00	1.42E-06	4.82E-08	1.55E-07	2.38E-08	2.27E-07	2.11E-09	1.18E-08	1.39E-09	1.53E-08
1824	577144.65	4194582.54	1.57E-07	4.88E-07	7.65E-08	0.00E+00	7.22E-07	2.45E-08	7.88E-08	1.21E-08	1.15E-07	1.07E-09	6.01E-09	7.09E-10	7.80E-09
1825	577137.15	4194577.13	1.48E-07	4.59E-07	7.18E-08	0.00E+00	6.78E-07	2.30E-08	7.40E-08	1.13E-08	1.08E-07	1.01E-09	5.65E-09	6.66E-10	7.32E-09
1826	577129.64	4194571.72	1.36E-07	4.24E-07	6.64E-08	0.00E+00	6.27E-07	2.13E-08	6.84E-08	1.05E-08	1.00E-07	9.33E-10	5.22E-09	6.15E-10	6.77E-09
1827	577122.13	4194566.31	1.24E-07	3.87E-07	6.05E-08	0.00E+00	5.71E-07	1.94E-08	6.23E-08	9.56E-09	9.13E-08	8.50E-10	4.76E-09	5.61E-10	6.17E-09
1828	577114.62	4194560.9	1.13E-07	3.50E-07	5.48E-08	0.00E+00	5.17E-07	1.75E-08	5.64E-08	8.65E-09	8.26E-08	7.70E-10	4.31E-09	5.08E-10	5.58E-09
1829	577107.12	4194555.49	1.01E-07	3.14E-07	4.92E-08	0.00E+00	4.64E-07	1.57E-08	5.06E-08	7.77E-09	7.42E-08	6.91E-10	3.87E-09	4.56E-10	5.01E-09
1830	577099.61	4194550.08	9.06E-08	2.82E-07	4.41E-08	0.00E+00	4.16E-07	1.41E-08	4.54E-08	6.96E-09	6.65E-08	6.20E-10	3.47E-09	4.09E-10	4.49E-09
1831	577092.1	4194544.67	8.14E-08	2.53E-07	3.96E-08	0.00E+00	3.74E-07	1.27E-08	4.08E-08	6.26E-09	5.97E-08	5.57E-10	3.11E-09	3.67E-10	4.04E-09
1832	577084.59	4194539.26	7.30E-08	2.27E-07	3.55E-08	0.00E+00	3.35E-07	1.14E-08	3.66E-08	5.61E-09	5.35E-08	4.99E-10	2.79E-09	3.29E-10	3.62E-09
1833	577077.09	4194533.85	6.53E-08	2.03E-07	3.18E-08	0.00E+00	3.00E-07	1.02E-08	3.27E-08	5.02E-09	4.79E-08	4.46E-10	2.50E-09	2.94E-10	3.24E-09
1834	577069.58	4194528.44	5.88E-08	1.83E-07	2.86E-08	0.00E+00	2.70E-07	9.16E-09	2.95E-08	4.52E-09	4.32E-08	4.02E-10	2.25E-09	2.65E-10	2.92E-09
1835	577062.07	4194523.03	5.36E-08	1.67E-07	2.61E-08	0.00E+00	2.46E-07	8.35E-09	2.69E-08	4.12E-09	3.93E-08	3.67E-10	2.05E-09	2.42E-10	2.66E-09
1836	577054.57	4194517.62	4.93E-08	1.53E-07	2.40E-08	0.00E+00	2.27E-07	7.69E-09	2.47E-08	3.79E-09	3.62E-08	3.37E-10	1.89E-09	2.22E-10	2.45E-09
1837	577047.06	4194512.21	4.59E-08	1.43E-07	2.23E-08	0.00E+00	2.11E-07	7.15E-09	2.30E-08	3.53E-09	3.37E-08	3.14E-10	1.76E-09	2.07E-10	2.28E-09
1838	577039.55	4194506.79	4.31E-08	1.34E-07	2.10E-08	0.00E+00	1.98E-07	6.72E-09	2.16E-08	3.31E-09	3.16E-08	2.95E-10	1.65E-09	1.94E-10	2.14E-09
1839	577032.04	4194501.38	4.09E-08	1.27E-07	1.99E-08	0.00E+00	1.88E-07	6.38E-09	2.05E-08	3.15E-09	3.00E-08	2.80E-10	1.57E-09	1.85E-10	2.03E-09
1840	577152.16	4194587.95	1.66E-07	5.17E-07	8.10E-08	0.00E+00	7.65E-07	2.59E-08	8.34E-08	1.28E-08	1.22E-07	1.14E-09	6.37E-09	7.51E-10	8.26E-09
1841	577161.49	4194590.18	1.81E-07	5.64E-07	8.83E-08	0.00E+00	8.34E-07	2.83E-08	9.09E-08	1.39E-08	1.33E-07	1.24E-09	6.94E-09	8.18E-10	9.00E-09
1842	577170.82	4194592.41	1.94E-07	6.02E-07	9.44E-08	0.00E+00	8.91E-07	3.02E-08	9.71E-08	1.49E-08	1.42E-07	1.33E-09	7.42E-09	8.74E-10	9.62E-09
1843	577180.15	4194594.64	2.05E-07	6.38E-07	9.99E-08	0.00E+00	9.43E-07	3.20E-08	1.03E-07	1.58E-08	1.51E-07	1.40E-09	7.85E-09	9.26E-10	1.02E-08
1844	577189.48	4194596.87	2.16E-07	6.73E-07	1.05E-07	0.00E+00	9.94E-07	3.37E-08	1.08E-07	1.66E-08	1.59E-07	1.48E-09	8.28E-09	9.76E-10	1.07E-08
1845	577198.81	4194599.1	2.29E-07	7.12E-07	1.11E-07	0.00E+00	1.05E-06	3.57E-08	1.15E-07	1.76E-08	1.68E-07	1.57E-09	8.76E-09	1.03E-09	1.14E-08
1846	577208.14	4194601.33	2.43E-07	7.54E-07	1.18E-07	0.00E+00	1.11E-06	3.78E-08	1.22E-07	1.86E-08	1.78E-07	1.66E-09	9.28E-09	1.09E-09	1.20E-08
1847	577217.47	4194603.56	2.56E-07	7.95E-07	1.24E-07	0.00E+00	1.17E-06	3.98E-08	1.28E-07	1.97E-08	1.88E-07	1.75E-09	9.78E-09	1.15E-09	1.27E-08
1848	577226.8	4194605.79	2.69E-07	8.36E-07	1.31E-07	0.00E+00	1.24E-06	4.19E-08	1.35E-07	2.07E-08	1.97E-07	1.84E-09	1.03E-08	1.21E-09	1.33E-08
1849	577236.13	4194608.02	2.84E-07	8.83E-07	1.38E-07	0.00E+00	1.31E-06	4.43E-08	1.42E-07	2.18E-08	2.09E-07	1.94E-09	1.09E-08	1.28E-09	1.41E-08
1850	577142.06	4194592.07	1.48E-07	4.61E-07	7.23E-08	0.00E+00	6.82E-07	2.31E-08	7.44E-08	1.14E-08	1.09E-07	1.02E-09	5.68E-09	6.69E-10	7.36E-09
1851	577134.28	4194586.47	1.40E-07	4.35E-07	6.82E-08	0.00E+00	6.44E-07	2.18E-08	7.02E-08	1.08E-08	1.03E-07	9.58E-10	5.36E-09	6.32E-10	6.95E-09
1852	577126.51	4194580.86	1.29E-07	4.01E-07	6.27E-08	0.00E+00	5.92E-07	2.01E-08	6.46E-08	9.91E-09	9.46E-08	8.81E-10	4.93E-09	5.81E-10	6.39E-09
1853	577118.73	4194575.26	1.18E-07	3.66E-07	5.73E-08	0.00E+00	5.41E-07	1.83E-08	5.90E-08	9.04E-09	8.64E-08	8.05E-10	4.50E-09	5.31E-10	5.84E-09
1854	577110.96	4194569.66	1.07E-07	3.32E-07	5.19E-08	0.00E+00	4.90E-07	1.66E-08	5.35E-08	8.20E-09	7.83E-08	7.30E-10	4.08E-09	4.81E-10	5.29E-09
1855	577103.18	4194564.05	9.61E-08	2.99E-07	4.68E-08	0.00E+00	4.41E-07	1.50E-08	4.81E-08	7.38E-09	7.05E-08	6.57E-10	3.68E-09	4.33E-10	4.77E-09
1856	577095.41	4194558.45	8.67E-08	2.70E-07	4.22E-08	0.00E+00	3.99E-07	1.35E-08	4.35E-08	6.67E-09	6.37E-08	5.93E-10	3.32E-09	3.91E-10	4.30E-09
1857	577087.63	4194552.85	7.78E-08	2.42E-07	3.79E-08	0.00E+00	3.57E-07	1.21E-08	3.90E-08	5.98E-09	5.71E-08	5.32E-10	2.98E-09	3.51E-10	3.86E-09
1858	577072.08	4194541.64	6.23E-08	1.94E-07	3.03E-08	0.00E+00	2.86E-07	9.70E-09	3.12E-08	4.79E-09	4.57E-08	4.26E-10	2.38E-09	2.81E-10	3.09E-09
1859	577064.31	4194536.04	5.63E-08	1.75E-07	2.74E-08	0.00E+00	2.59E-07	8.78E-09	2.82E-08	4.33E-09	4.13E-08	3.85E-10	2.16E-09	2.54E-10	2.79E-09
1860	577056.53	4194530.43	5.11E-08	1.59E-07	2.49E-08	0.00E+00	2.35E-07	7.96E-09	2.56E-08	3.92E-09	3.75E-08	3.49E-10	1.95E-09	2.30E-10	2.53E-09
1861	577048.76	4194524.83	4.66E-08	1.45E-07	2.27E-08	0.00E+00	2.14E-07	7.26E-09	2.34E-08	3.58E-09	3.42E-08	3.19E-10	1.78E-09	2.10E-10	2.31E-09
1862	577040.98	4194519.23	4.32E-08	1.34E-07	2.10E-08	0.00E+00	1.98E-07	6.73E-09	2.16E-08	3.32E-09	3.17E-08	2.95E-10	1.65E-09	1.95E-10	2.14E-09
1863	577033.21	4194513.62	4.03E-08	1.25E-07	1.96E-08	0.00E+00	1.85E-07	6.29E-09	2.02E-08	3.10E-09	2.96E-08	2.76E-10	1.54E-09	1.82E-10	2.00E-09
1864	577025.43	4194508.02	3.82E-08	1.19E-07	1.86E-08	0.00E+00	1.76E-07	5.95E-09	1.91E-08	2.94E-09	2.80E-08	2.61E-10	1.46E-09	1.72E-10	1.89E-09
1865	577017.65	4194502.42	3.67E-08	1.14E-07	1.79E-08	0.00E+00	1.69E-07	5.72E-09	1.84E-08	2.82E-09	2.69E-08	2.51E-10	1.40E-09	1.66E-10	1.82E-09
1866	577009.88	4194496.81	3.59E-08	1.12E-07	1.75E-08	0.00E+00	1.65E-07	5.60E-09	1.80E-08	2.76E-09	2.64E-08	2.46E-10	1.37E-09	1.62E-10	1.78E-09
1867	577002.1	4194491.21	3.53E-08	1.10E-07	1.72E-08	0.00E+00	1.62E-07	5.51E-09	1.77E-08	2.72E-09	2.59E-08	2.42E-10	1.35E-09	1.59E-10	1.75E-09
1868	577149.83	4194597.68	1.57E-07	4.88E-07	7.65E-08	0.00E+00	7.22E-07	2.45E-08	7.88E-08	1.21E-08	1.15E-07	1.07E-09	6.01E-09	7.09E-10	7.80E-09
1869	577159.16	4194599.91	1.71E-07	5.31E-07	8.32E-08	0.00E+00	7.85E-07	2.66E-08	8.56E-08	1.31E-08	1.25E-07	1.17E-09	6.54E-09	7.71E-10	8.48E-09
1870	577168.49	4194602.14	1.83E-07	5.69E-07	8.92E-08	0.00E+00	8.42E-07	2.85E-08	9.18E-08	1.41E-08	1.34E-07	1.25E-09	7.01E-09	8.26E-10	9.09E-09
1871	577177.82	4194604.37	1.93E-07	6.01E-07	9.41E-08	0.00E+00	8.88E-07	3.01E-08	9.68E-08	1.49E-08	1.42E-07	1.32E-09	7.39E-09	8.71E-10	9.58E-09
1872	577187.15	4194606.6	2.03E-07	6.31E-07	9.88E-08	0.00E+00	9.33E-07	3.16E-08	1.02E-07	1.56E-08	1.49E-07	1.39E-09	7.77E-09	9.15E-10	1.01E-08
1873	577196.48	4194608.83	2.13E-07	6.63E-07	1.04E-07	0.00E+00	9.80E-07	3.32E-08	1.07E-07	1.64E-08	1.56E-07	1.46E-09	8.16E-09	9.62E-10	1.06E-08
1874	577205.81	4194611.06	2.25E-07	7.00E-07	1.10E-07	0.00E+00	1.04E-06	3.51E-08	1.13E-07	1.73E-08	1.65E-07	1.54E-09	8.62E-09	1.02E-09	1.12E-08
1875	577215.14	4194613.29	2.37E-07	7.36E-07	1.15E-07	0.00E+00	1.09E-06	3.69E-08	1.19E-07	1.82E-08	1.74E-07	1.62E-09	9.06E-09	1.07E-09	1.18E-08
1876	577224.47	4194615.52	2.48E-07	7.71E-07	1.21E-07	0.00E+00	1.14E-06	3.87E-08	1.24E-07	1.91E-08	1.82E-07	1.70E-09	9.49E-09	1.12E-09	1.23E-08
1877	577233.8	4194617.75	2.62E-07	8.15E-07	1.28E-07	0.00E+00	1.20E-06	4.08E-08	1.31E-07	2.01E-08	1.92E-07	1.79E-09	1.00E-08	1.18E-09	1.30E-08
1878	577139.8	4194601.85	1.41E-07	4.37E-07	6.85E-08	0.00E+00	6.47E-07	2.19E-08	7.05E-08	1.08E-08	1.03E-07	9.62E-10	5.38E-09	6.35E-10	6.98E-09
1879	577132.09	4194596.29	1.33E-07	4.12E-07	6.46E-08	0.00E+00	6.10E-07	2.07E-08	6.65E-08	1.02E-08	9.74E-08	9.07E-10	5.08E-09	5.98E-10	6.58E-09
1880	577124.39	4194590.74	1.23E-07	3.83E-07	5.99E-08	0.00E+00	5.65E-07	1.92E-08	6.17E-08	9.46E-09	9.03E-08	8.42E-10	4.71E-09	5.55E-10	6.10E-09
1881	577116.68	4194585.18	1.13E-07	3.53E-07	5.52E-08	0.00E+00	5.21E-07	1.77E-08	5.69E-08	8.72E-09	8.32E-08	7.76E-10	4.34E-09	5.12E-10	5.63E-09
1882	577108.97	4194579.63	1.04E-07	3.22E-07	5.04E-08	0.00E+00	4.76E-07	1.61E-08	5.19E-08	7.96E-09	7.60E-08	7.09E-10	3.96E-09	4.67E-10	5.14E-09
1883	577101.26	4194574.07	9.43E-08	2.93E-07	4.59E-08	0.00E+00	4.33E-07	1.47E-08	4.73E-08	7.25E-09	6.92E-08	6.45E-10	3.61E-09	4.25E-10	4.68E-09
1884	577093.55	4194568.51	8.58E-08	2.67E-07	4.18E-08	0.00E+00	3.94E-07	1.34E-08	4.30E-08	6.59E-09	6.29E-08	5.87E-10	3.28E-09	3.87E-10	4.25E-09
1885	577085.84	4194562.96	7.74E-08	2.40E-07	3.77E-08	0.00E+00	3.55E-07	1.21E-08	3.88E-08	5.95E-09	5.68E-08	5.29E-10	2.96E-09	3.49E-10	3.84E-09
1886	577078.14	4194557.4	6.92E-08	2.15E-07	3.37E-08	0.00E+00	3.18E-07	1.08E-08	3.47E-08	5.32E-09	5.08E-08	4.74E-10	2.65E-09	3.12E-10	3.43E-09
1887	577070.43	4194551.85	6.23E-08	1.94E-07	3.03E-08	0.00E+00	2.86E-07	9.71E-09	3.12E-08	4.79E-09	4.57E-08	4.26E-10	2.38E-09	2.81E-10	3.09E-09
1888	577062.72	4194546.29	5.65E-08	1.76E-07	2.75E-08	0.00E+00	2.60E-07	8.80E-09	2.83E-08	4.34E-09	4.15E-08	3.86E-10	2.16E-09	2.55E-10	2.80E-09
1889	577055.01	4194540.74	5.13E-08	1.59E-07	2.49E-08	0.00E+00	2.36E-07	7.99E-09	2.57E-08	3.94E-09	3.76E-08	3.51E-10	1.96E-09	2.31E-10	2.54E-09
1890	577047.3	4194535.18	4.67E-08	1.45E-07	2.27E-08	0.00E+00	2.14E-07	7.27E-09	2.34E-08	3.59E-09	3.42E-08	3.19E-10	1.78E-09	2.10E-10	2.31E-09
1891	577039.59	4194529.63	4.27E-08	1.33E-07	2.08E-08	0.00E+00	1.96E-07	6.65E-09	2.14E-08	3.28E-09	3.13E-08	2.92E-10	1.63E-09	1.93E-10	2.12E-09
1892	577031.89	4194524.07	3.94E-08	1.23E-07	1.92E-08	0.00E+00	1.81E-07	6.14E-09	1.98E-08	3.03E-09	2.89E-08	2.70E-10	1.51E-09	1.78E-10	1.96E-09
1893	577024.18	4194518.52	3.70E-08	1.15E-07	1.80E-08	0.00E+00	1.70E-07	5.77E-09	1.85E-08	2.84E-09	2.72E-08	2.53E-10	1.42E-09	1.67E-10	1.84E-09
1894	577016.47	4194512.96	3.52E-08	1.09E-07	1.71E-08	0.00E+00	1.62E-07	5.48E-09	1.76E-08	2.70E-09	2.58E-08	2.41E-10	1.35E-09	1.59E-10	1.75E-09
1895	577008.76	4194507.41	3.41E-08	1.06E-07	1.66E-08	0.00E+00	1.57E-07	5.31E-09	1.71E-08	2.62E-09	2.50E-08	2.33E-10	1.30E-09	1.54E-10	1.69E-09
1896	577001.05	4194501.85	3.35E-08	1.04E-07	1.63E-08	0.00E+00	1.54E-07	5.21E-09	1.68E-08	2.57E-09	2.46E-08	2.29E-10	1.28E-09	1.51E-10	1.66E-09
1897	576993.34	4194496.3	3.33E-08	1.03E-07	1.62E-08	0.00E+00	1.53E-07	5.18E-09	1.67E-08	2.56E-09	2.44E-08	2.28E-10	1.27E-09	1.50E-10	1.65E-09
1898	576985.64	4194490.74	3.33E-08	1.04E-07	1.62E-08	0.00E+00	1.53E-07	5.19E-09	1.67E-08	2.56E-09	2.45E-08	2.28E-10	1.27E-09	1.50E-10	1.65E-09
1899	576977.93	4194485.19	3.39E-08	1.05E-07	1.65E-08	0.00E+00	1.56E-07	5.29E-09	1.70E-08	2.61E-09	2.49E-08	2.32E-10	1.30E-09	1.53E-10	1.68E-09
1900	576970.22	4194479.63	3.50E-08	1.09E-07	1.70E-08	0.00E+00	1.61E-07	5.45E-09	1.75E-08	2.69E-09	2.57E-08	2.39E-10	1.34E-09	1.58E-10	1.74E-09
1901	577147.51	4194607.4	1.49E-07	4.62E-07	7.24E-08	0.00E+00	6.83E-07	2.32E-08	7.45E-08	1.14E-08	1.09E-07	1.02E-09	5.69E-09	6.70E-10	7.37E-09
1902	577156.84	4194609.63	1.61E-07	5.01E-07	7.85E-08	0.00E+00	7.41E-07	2.51E-08	8.08E-08	1.24E-08	1.18E-07	1.10E-09	6.17E-09	7.27E-10	8.00E-09
1903	577166.17	4194611.86	1.74E-07	5.39E-07	8.45E-08	0.00E+00	7.98E-07	2.70E-08	8.70E-08	1.33E-08	1.27E-07	1.19E-09	6.64E-09	7.83E-10	8.61E-09
1904	577175.5	4194614.09	1.82E-07	5.67E-07	8.88E-08	0.00E+00	8.38E-07	2.84E-08	9.15E-08	1.40E-08	1.34E-07	1.25E-09	6.98E-09	8.23E-10	9.05E-09
1905	577184.83	4194616.32	1.91E-07	5.94E-07	9.30E-08	0.00E+00	8.78E-07	2.98E-08	9.57E-08	1.47E-08	1.40E-07	1.31E-09	7.31E-09	8.62E-10	9.48E-09

1906	577194.16	4194618.55	1.99E-07	6.19E-07	9.69E-08	0.00E+00	9.15E-07	3.10E-08	9.98E-08	1.53E-08	1.46E-07	1.36E-09	7.62E-09	8.98E-10	9.88E-09
1907	577203.49	4194620.78	2.10E-07	6.52E-07	1.02E-07	0.00E+00	9.65E-07	3.27E-08	1.05E-07	1.61E-08	1.54E-07	1.44E-09	8.03E-09	9.47E-10	1.04E-08
1908	577212.82	4194623.01	2.20E-07	6.85E-07	1.07E-07	0.00E+00	1.01E-06	3.44E-08	1.10E-07	1.69E-08	1.62E-07	1.51E-09	8.43E-09	9.94E-10	1.09E-08
1909	577222.15	4194625.24	2.31E-07	7.17E-07	1.12E-07	0.00E+00	1.06E-06	3.59E-08	1.16E-07	1.77E-08	1.69E-07	1.58E-09	8.83E-09	1.04E-09	1.14E-08
1910	577231.48	4194627.47	2.43E-07	7.57E-07	1.18E-07	0.00E+00	1.12E-06	3.79E-08	1.22E-07	1.87E-08	1.79E-07	1.66E-09	9.31E-09	1.10E-09	1.21E-08
1911	577137.54	4194611.62	1.34E-07	4.15E-07	6.50E-08	0.00E+00	6.14E-07	2.08E-08	6.70E-08	1.03E-08	9.80E-08	9.14E-10	5.11E-09	6.02E-10	6.63E-09
1912	577129.89	4194606.11	1.26E-07	3.91E-07	6.13E-08	0.00E+00	5.78E-07	1.96E-08	6.31E-08	9.67E-09	9.23E-08	8.61E-10	4.81E-09	5.68E-10	6.24E-09
1913	577122.25	4194600.6	1.17E-07	3.65E-07	5.71E-08	0.00E+00	5.39E-07	1.83E-08	5.88E-08	9.02E-09	8.61E-08	8.03E-10	4.49E-09	5.29E-10	5.82E-09
1914	577114.6	4194595.08	1.09E-07	3.39E-07	5.30E-08	0.00E+00	5.01E-07	1.70E-08	5.46E-08	8.37E-09	7.99E-08	7.45E-10	4.17E-09	4.91E-10	5.40E-09
1915	577106.95	4194589.57	1.00E-07	3.12E-07	4.89E-08	0.00E+00	4.62E-07	1.57E-08	5.03E-08	7.72E-09	7.37E-08	6.87E-10	3.84E-09	4.53E-10	4.98E-09
1916	577099.31	4194584.06	9.25E-08	2.87E-07	4.50E-08	0.00E+00	4.25E-07	1.44E-08	4.64E-08	7.11E-09	6.79E-08	6.33E-10	3.54E-09	4.17E-10	4.59E-09
1917	577091.66	4194578.55	8.48E-08	2.63E-07	4.13E-08	0.00E+00	3.89E-07	1.32E-08	4.25E-08	6.51E-09	6.22E-08	5.80E-10	3.24E-09	3.82E-10	4.20E-09
1918	577084.01	4194573.04	7.70E-08	2.39E-07	3.75E-08	0.00E+00	3.54E-07	1.20E-08	3.86E-08	5.92E-09	5.65E-08	5.27E-10	2.95E-09	3.47E-10	3.82E-09
1919	577076.37	4194567.53	6.94E-08	2.16E-07	3.38E-08	0.00E+00	3.19E-07	1.08E-08	3.48E-08	5.33E-09	5.09E-08	4.75E-10	2.65E-09	3.13E-10	3.44E-09
1920	577068.72	4194562.02	6.27E-08	1.95E-07	3.05E-08	0.00E+00	2.88E-07	9.76E-09	3.14E-08	4.82E-09	4.60E-08	4.28E-10	2.40E-09	2.83E-10	3.11E-09
1921	577061.07	4194556.51	5.65E-08	1.76E-07	2.75E-08	0.00E+00	2.60E-07	8.81E-09	2.83E-08	4.34E-09	4.15E-08	3.87E-10	2.16E-09	2.55E-10	2.80E-09
1922	577053.43	4194551	5.13E-08	1.60E-07	2.50E-08	0.00E+00	2.36E-07	8.00E-09	2.57E-08	3.95E-09	3.77E-08	3.51E-10	1.96E-09	2.31E-10	2.55E-09
1923	577045.78	4194545.49	4.67E-08	1.45E-07	2.27E-08	0.00E+00	2.15E-07	7.28E-09	2.34E-08	3.59E-09	3.43E-08	3.20E-10	1.79E-09	2.11E-10	2.32E-09
1924	577038.13	4194539.98	4.28E-08	1.33E-07	2.08E-08	0.00E+00	1.97E-07	6.67E-09	2.15E-08	3.29E-09	3.14E-08	2.93E-10	1.64E-09	1.93E-10	2.12E-09
1925	577030.49	4194534.47	3.94E-08	1.22E-07	1.92E-08	0.00E+00	1.81E-07	6.13E-09	1.97E-08	3.03E-09	2.89E-08	2.69E-10	1.51E-09	1.78E-10	1.95E-09
1926	577022.84	4194528.96	3.64E-08	1.13E-07	1.77E-08	0.00E+00	1.67E-07	5.66E-09	1.82E-08	2.79E-09	2.67E-08	2.49E-10	1.39E-09	1.64E-10	1.80E-09
1927	577015.19	4194523.44	3.40E-08	1.06E-07	1.66E-08	0.00E+00	1.56E-07	5.30E-09	1.71E-08	2.62E-09	2.50E-08	2.33E-10	1.30E-09	1.53E-10	1.69E-09
1928	577007.55	4194517.93	3.27E-08	1.02E-07	1.59E-08	0.00E+00	1.50E-07	5.10E-09	1.64E-08	2.51E-09	2.40E-08	2.24E-10	1.25E-09	1.48E-10	1.62E-09
1929	576999.9	4194512.42	3.19E-08	9.90E-08	1.55E-08	0.00E+00	1.46E-07	4.96E-09	1.60E-08	2.45E-09	2.34E-08	2.18E-10	1.22E-09	1.44E-10	1.58E-09
1930	576992.25	4194506.91	3.14E-08	9.75E-08	1.53E-08	0.00E+00	1.44E-07	4.89E-09	1.57E-08	2.41E-09	2.30E-08	2.14E-10	1.20E-09	1.41E-10	1.56E-09
1931	576984.61	4194501.4	3.12E-08	9.71E-08	1.52E-08	0.00E+00	1.43E-07	4.87E-09	1.57E-08	2.40E-09	2.29E-08	2.14E-10	1.19E-09	1.41E-10	1.55E-09
1932	576976.96	4194495.89	3.15E-08	9.81E-08	1.54E-08	0.00E+00	1.45E-07	4.92E-09	1.58E-08	2.42E-09	2.32E-08	2.16E-10	1.21E-09	1.42E-10	1.56E-09
1933	576969.31	4194490.38	3.22E-08	1.00E-07	1.57E-08	0.00E+00	1.48E-07	5.01E-09	1.61E-08	2.47E-09	2.36E-08	2.20E-10	1.23E-09	1.45E-10	1.60E-09
1934	576961.67	4194484.87	3.32E-08	1.03E-07	1.62E-08	0.00E+00	1.52E-07	5.17E-09	1.66E-08	2.55E-09	2.43E-08	2.27E-10	1.27E-09	1.50E-10	1.65E-09
1935	577145.19	4194617.13	1.41E-07	4.38E-07	6.85E-08	0.00E+00	6.47E-07	2.19E-08	7.06E-08	1.08E-08	1.03E-07	9.63E-10	5.39E-09	6.35E-10	6.98E-09
1936	577154.52	4194619.36	1.52E-07	4.73E-07	7.40E-08	0.00E+00	6.99E-07	2.37E-08	7.62E-08	1.17E-08	1.12E-07	1.04E-09	5.82E-09	6.86E-10	7.54E-09
1937	577163.85	4194621.59	1.64E-07	5.10E-07	7.98E-08	0.00E+00	7.54E-07	2.56E-08	8.22E-08	1.26E-08	1.20E-07	1.12E-09	6.27E-09	7.40E-10	8.13E-09
1938	577173.18	4194623.82	1.72E-07	5.34E-07	8.36E-08	0.00E+00	7.89E-07	2.68E-08	8.61E-08	1.32E-08	1.26E-07	1.17E-09	6.57E-09	7.74E-10	8.52E-09
1939	577182.51	4194626.05	1.79E-07	5.57E-07	8.73E-08	0.00E+00	8.24E-07	2.79E-08	8.98E-08	1.38E-08	1.32E-07	1.23E-09	6.86E-09	8.08E-10	8.89E-09
1940	577191.84	4194628.28	1.87E-07	5.80E-07	9.08E-08	0.00E+00	8.57E-07	2.91E-08	9.35E-08	1.43E-08	1.37E-07	1.28E-09	7.14E-09	8.41E-10	9.25E-09
1941	577201.17	4194630.51	1.96E-07	6.09E-07	9.54E-08	0.00E+00	9.00E-07	3.05E-08	9.82E-08	1.51E-08	1.44E-07	1.34E-09	7.50E-09	8.84E-10	9.72E-09
1942	577210.5	4194632.74	2.06E-07	6.39E-07	1.00E-07	0.00E+00	9.45E-07	3.21E-08	1.03E-07	1.58E-08	1.51E-07	1.41E-09	7.87E-09	9.28E-10	1.02E-08
1943	577219.83	4194634.97	2.15E-07	6.69E-07	1.05E-07	0.00E+00	9.89E-07	3.35E-08	1.08E-07	1.65E-08	1.58E-07	1.47E-09	8.23E-09	9.71E-10	1.07E-08
1944	577229.16	4194637.2	2.26E-07	7.03E-07	1.10E-07	0.00E+00	1.04E-06	3.53E-08	1.13E-07	1.74E-08	1.66E-07	1.55E-09	8.66E-09	1.02E-09	1.12E-08
1945	577135.27	4194621.38	1.27E-07	3.94E-07	6.17E-08	0.00E+00	5.82E-07	1.98E-08	6.35E-08	9.74E-09	9.30E-08	8.67E-10	4.85E-09	5.72E-10	6.29E-09
1946	577127.68	4194615.91	1.20E-07	3.72E-07	5.83E-08	0.00E+00	5.50E-07	1.86E-08	6.00E-08	9.20E-09	8.78E-08	8.18E-10	4.58E-09	5.40E-10	5.94E-09
1947	577120.09	4194610.44	1.12E-07	3.49E-07	5.46E-08	0.00E+00	5.15E-07	1.75E-08	5.62E-08	8.62E-09	8.23E-08	7.67E-10	4.29E-09	5.06E-10	5.56E-09
1948	577112.5	4194604.97	1.05E-07	3.26E-07	5.10E-08	0.00E+00	4.81E-07	1.63E-08	5.25E-08	8.05E-09	7.69E-08	7.16E-10	4.01E-09	4.72E-10	5.19E-09
1949	577104.91	4194599.5	9.72E-08	3.02E-07	4.73E-08	0.00E+00	4.47E-07	1.52E-08	4.87E-08	7.47E-09	7.14E-08	6.65E-10	3.72E-09	4.39E-10	4.82E-09
1950	577097.32	4194594.03	9.04E-08	2.81E-07	4.40E-08	0.00E+00	4.16E-07	1.41E-08	4.53E-08	6.95E-09	6.64E-08	6.19E-10	3.46E-09	4.08E-10	4.49E-09
1951	577089.73	4194588.57	8.36E-08	2.60E-07	4.07E-08	0.00E+00	3.84E-07	1.30E-08	4.19E-08	6.43E-09	6.14E-08	5.72E-10	3.20E-09	3.77E-10	4.15E-09
1952	577082.14	4194583.1	7.66E-08	2.38E-07	3.73E-08	0.00E+00	3.52E-07	1.19E-08	3.84E-08	5.89E-09	5.62E-08	5.24E-10	2.93E-09	3.45E-10	3.80E-09
1953	577074.55	4194577.63	6.95E-08	2.16E-07	3.38E-08	0.00E+00	3.19E-07	1.08E-08	3.48E-08	5.34E-09	5.10E-08	4.75E-10	2.66E-09	3.13E-10	3.45E-09
1954	577066.96	4194572.16	6.33E-08	1.97E-07	3.08E-08	0.00E+00	2.91E-07	9.86E-09	3.17E-08	4.86E-09	4.64E-08	4.33E-10	2.42E-09	2.85E-10	3.14E-09
1955	577059.37	4194566.69	5.74E-08	1.78E-07	2.79E-08	0.00E+00	2.64E-07	8.94E-09	2.88E-08	4.41E-09	4.21E-08	3.92E-10	2.20E-09	2.59E-10	2.85E-09
1956	577051.78	4194561.22	5.18E-08	1.61E-07	2.52E-08	0.00E+00	2.38E-07	8.07E-09	2.60E-08	3.98E-09	3.80E-08	3.54E-10	1.98E-09	2.34E-10	2.57E-09
1957	577044.19	4194555.75	4.67E-08	1.45E-07	2.27E-08	0.00E+00	2.15E-07	7.28E-09	2.34E-08	3.59E-09	3.43E-08	3.19E-10	1.79E-09	2.11E-10	2.32E-09
1958	577036.61	4194550.28	4.29E-08	1.33E-07	2.09E-08	0.00E+00	1.97E-07	6.69E-09	2.15E-08	3.30E-09	3.15E-08	2.94E-10	1.64E-09	1.94E-10	2.13E-09
1959	577029.02	4194544.81	3.95E-08	1.23E-07	1.92E-08	0.00E+00	1.82E-07	6.16E-09	1.98E-08	3.04E-09	2.90E-08	2.70E-10	1.51E-09	1.78E-10	1.96E-09
1960	577021.43	4194539.34	3.65E-08	1.13E-07	1.78E-08	0.00E+00	1.68E-07	5.69E-09	1.83E-08	2.81E-09	2.68E-08	2.50E-10	1.40E-09	1.65E-10	1.81E-09
1961	577013.84	4194533.87	3.38E-08	1.05E-07	1.65E-08	0.00E+00	1.56E-07	5.27E-09	1.70E-08	2.60E-09	2.48E-08	2.31E-10	1.29E-09	1.53E-10	1.68E-09
1962	577006.25	4194528.4	3.19E-08	9.93E-08	1.55E-08	0.00E+00	1.47E-07	4.98E-09	1.60E-08	2.45E-09	2.34E-08	2.18E-10	1.22E-09	1.44E-10	1.58E-09
1963	576998.66	4194522.93	3.07E-08	9.54E-08	1.49E-08	0.00E+00	1.41E-07	4.78E-09	1.54E-08	2.36E-09	2.25E-08	2.10E-10	1.17E-09	1.38E-10	1.52E-09
1964	576991.07	4194517.46	3.00E-08	9.31E-08	1.46E-08	0.00E+00	1.38E-07	4.67E-09	1.50E-08	2.30E-09	2.20E-08	2.05E-10	1.15E-09	1.35E-10	1.49E-09
1965	576983.48	4194511.99	2.96E-08	9.19E-08	1.44E-08	0.00E+00	1.36E-07	4.60E-09	1.48E-08	2.27E-09	2.17E-08	2.02E-10	1.13E-09	1.33E-10	1.47E-09
1966	576975.89	4194506.52	2.95E-08	9.18E-08	1.44E-08	0.00E+00	1.36E-07	4.60E-09	1.48E-08	2.27E-09	2.17E-08	2.02E-10	1.13E-09	1.33E-10	1.46E-09
1967	576968.3	4194501.05	2.99E-08	9.29E-08	1.45E-08	0.00E+00	1.37E-07	4.66E-09	1.50E-08	2.30E-09	2.19E-08	2.04E-10	1.14E-09	1.35E-10	1.48E-09
1968	576960.71	4194495.58	3.06E-08	9.50E-08	1.49E-08	0.00E+00	1.40E-07	4.76E-09	1.53E-08	2.35E-09	2.24E-08	2.09E-10	1.17E-09	1.38E-10	1.52E-09
1969	576953.12	4194490.11	3.15E-08	9.79E-08	1.53E-08	0.00E+00	1.45E-07	4.91E-09	1.58E-08	2.42E-09	2.31E-08	2.15E-10	1.20E-09	1.42E-10	1.56E-09
1970	576943.98	4194475.41	3.46E-08	1.08E-07	1.68E-08	0.00E+00	1.59E-07	5.39E-09	1.73E-08	2.66E-09	2.54E-08	2.37E-10	1.32E-09	1.56E-10	1.72E-09
1971	577142.86	4194626.85	1.33E-07	4.13E-07	6.47E-08	0.00E+00	6.11E-07	2.07E-08	6.66E-08	1.02E-08	9.75E-08	9.09E-10	5.08E-09	5.99E-10	6.59E-09
1972	577152.19	4194629.08	1.43E-07	4.44E-07	6.96E-08	0.00E+00	6.57E-07	2.23E-08	7.17E-08	1.10E-08	1.05E-07	9.78E-10	5.47E-09	6.45E-10	7.09E-09
1973	577161.52	4194631.31	1.54E-07	4.78E-07	7.48E-08	0.00E+00	7.06E-07	2.39E-08	7.70E-08	1.18E-08	1.13E-07	1.05E-09	5.88E-09	6.93E-10	7.62E-09
1974	577170.85	4194633.54	1.62E-07	5.03E-07	7.87E-08	0.00E+00	7.43E-07	2.52E-08	8.10E-08	1.24E-08	1.19E-07	1.11E-09	6.18E-09	7.29E-10	8.02E-09
1975	577180.18	4194635.77	1.69E-07	5.24E-07	8.21E-08	0.00E+00	7.75E-07	2.63E-08	8.45E-08	1.30E-08	1.24E-07	1.15E-09	6.45E-09	7.60E-10	8.36E-09
1976	577189.51	4194638	1.75E-07	5.45E-07	8.53E-08	0.00E+00	8.05E-07	2.73E-08	8.78E-08	1.35E-08	1.29E-07	1.20E-09	6.70E-09	7.90E-10	8.69E-09
1977	577198.84	4194640.23	1.83E-07	5.70E-07	8.92E-08	0.00E+00	8.42E-07	2.86E-08	9.18E-08	1.41E-08	1.34E-07	1.25E-09	7.01E-09	8.26E-10	9.09E-09
1978	577208.17	4194642.46	1.92E-07	5.98E-07	9.36E-08	0.00E+00	8.84E-07	3.00E-08	9.64E-08	1.48E-08	1.41E-07	1.32E-09	7.36E-09	8.67E-10	9.54E-09
1979	577217.5	4194644.69	2.01E-07	6.25E-07	9.79E-08	0.00E+00	9.24E-07	3.13E-08	1.01E-07	1.55E-08	1.48E-07	1.38E-09	7.70E-09	9.07E-10	9.98E-09
1980	577226.83	4194646.92	2.11E-07	6.55E-07	1.03E-07	0.00E+00	9.69E-07	3.29E-08	1.06E-07	1.62E-08	1.55E-07	1.44E-09	8.07E-09	9.51E-10	1.05E-08
1981	577268.82	4194557.27	5.22E-07	1.62E-06	2.54E-07	0.00E+00	2.40E-06	8.14E-08	2.62E-07	4.02E-08	3.83E-07	3.57E-09	2.00E-08	2.36E-09	2.59E-08
1982	577259.79	4194558.18	4.86E-07	1.51E-06	2.37E-07	0.00E+00	2.23E-06	7.58E-08	2.44E-07	3.74E-08	3.57E-07	3.33E-09	1.86E-08	2.19E-09	2.41E-08
1983	577289.88	4194564.63	5.60E-07	1.74E-06	2.73E-07	0.00E+00	2.57E-06	8.73E-08	2.81E-07	4.31E-08	4.11E-07	3.83E-09	2.14E-08	2.53E-09	2.78E-08
1984	577278.02	4194565.83	5.17E-07	1.61E-06	2.52E-07	0.00E+00	2.38E-06	8.06E-08	2.59E-07	3.97E-08	3.79E-07	3.54E-09	1.98E-08	2.33E-09	2.57E-08
1985	577266.17	4194567.02	4.75E-07	1.48E-06	2.31E-07	0.00E+00	2.18E-06	7.40E-08	2.38E-07	3.65E-08	3.49E-07	3.25E-09	1.82E-08	2.14E-09	2.36E-08
1986	577308.54	4194572.25	5.79E-07	1.80E-06	2.82E-07	0.00E+00	2.66E-06	9.02E-08	2.90E-07	4.45E-08	4.25E-07	3.96E-09	2.22E-08	2.61E-09	2.87E-08
1987	577296.64	4194573.44	5.44E-07	1.69E-06	2.65E-07	0.00E+00	2.50E-06	8.48E-08	2.73E-07	4.18E-08	3.99E-07	3.72E-09	2.08E-08	2.45E-09	2.70E-08
1988	577284.74	4194574.64	5.02E-07	1.56E-06	2.45E-07	0.00E+00	2.31E-06	7.83E-08	2.52E-07	3.86E-08	3.69E-07	3.44E-09	1.92E-08	2.27E-09	2.49E-08

1989	577272.85	4194575.84	4.64E-07	1.44E-06	2.26E-07	0.00E+00	2.13E-06	7.23E-08	2.33E-07	3.57E-08	3.41E-07	3.17E-09	1.78E-08	2.09E-09	2.30E-08
1990	577260.95	4194577.04	4.24E-07	1.32E-06	2.06E-07	0.00E+00	1.95E-06	6.61E-08	2.13E-07	3.26E-08	3.11E-07	2.90E-09	1.62E-08	1.91E-09	2.10E-08
1991	577333.31	4194579.24	5.81E-07	1.81E-06	2.83E-07	0.00E+00	2.67E-06	9.06E-08	2.91E-07	4.47E-08	4.27E-07	3.98E-09	2.22E-08	2.62E-09	2.88E-08
1992	577321.37	4194580.44	5.68E-07	1.76E-06	2.76E-07	0.00E+00	2.61E-06	8.84E-08	2.84E-07	4.36E-08	4.16E-07	3.88E-09	2.17E-08	2.56E-09	2.82E-08
1993	577309.43	4194581.65	5.43E-07	1.69E-06	2.64E-07	0.00E+00	2.49E-06	8.46E-08	2.72E-07	4.17E-08	3.98E-07	3.71E-09	2.08E-08	2.45E-09	2.69E-08
1994	577297.49	4194582.85	5.10E-07	1.58E-06	2.48E-07	0.00E+00	2.34E-06	7.94E-08	2.55E-07	3.92E-08	3.74E-07	3.49E-09	1.95E-08	2.30E-09	2.53E-08
1995	577285.55	4194584.05	4.71E-07	1.46E-06	2.29E-07	0.00E+00	2.16E-06	7.34E-08	2.36E-07	3.62E-08	3.46E-07	3.22E-09	1.80E-08	2.12E-09	2.34E-08
1996	577273.61	4194585.26	4.35E-07	1.35E-06	2.12E-07	0.00E+00	2.00E-06	6.78E-08	2.18E-07	3.34E-08	3.19E-07	2.97E-09	1.66E-08	1.96E-09	2.16E-08
1997	577261.67	4194586.46	3.98E-07	1.24E-06	1.94E-07	0.00E+00	1.83E-06	6.20E-08	1.99E-07	3.06E-08	2.92E-07	2.72E-09	1.52E-08	1.79E-09	1.97E-08
1998	577252.72	4194587.36	3.70E-07	1.15E-06	1.80E-07	0.00E+00	1.70E-06	5.77E-08	1.86E-07	2.85E-08	2.72E-07	2.53E-09	1.42E-08	1.67E-09	1.84E-08
1999	577358.23	4194586.22	5.37E-07	1.67E-06	2.62E-07	0.00E+00	2.47E-06	8.37E-08	2.69E-07	4.13E-08	3.94E-07	3.68E-09	2.06E-08	2.42E-09	2.67E-08
2000	577349.25	4194587.13	5.47E-07	1.70E-06	2.66E-07	0.00E+00	2.51E-06	8.53E-08	2.74E-07	4.21E-08	4.02E-07	3.74E-09	2.09E-08	2.47E-09	2.71E-08
2001	577340.27	4194588.03	5.50E-07	1.71E-06	2.68E-07	0.00E+00	2.53E-06	8.57E-08	2.76E-07	4.23E-08	4.04E-07	3.76E-09	2.10E-08	2.48E-09	2.73E-08
2002	577328.29	4194589.24	5.41E-07	1.68E-06	2.64E-07	0.00E+00	2.49E-06	8.43E-08	2.71E-07	4.16E-08	3.97E-07	3.70E-09	2.07E-08	2.44E-09	2.69E-08
2003	577319.31	4194590.14	5.28E-07	1.64E-06	2.57E-07	0.00E+00	2.42E-06	8.22E-08	2.64E-07	4.06E-08	3.87E-07	3.61E-09	2.02E-08	2.38E-09	2.62E-08
2004	577310.32	4194591.05	5.09E-07	1.58E-06	2.48E-07	0.00E+00	2.34E-06	7.93E-08	2.55E-07	3.91E-08	3.74E-07	3.48E-09	1.95E-08	2.30E-09	2.52E-08
2005	577301.34	4194591.95	4.86E-07	1.51E-06	2.37E-07	0.00E+00	2.24E-06	7.58E-08	2.44E-07	3.74E-08	3.57E-07	3.33E-09	1.86E-08	2.19E-09	2.41E-08
2006	577289.36	4194593.16	4.52E-07	1.40E-06	2.20E-07	0.00E+00	2.08E-06	7.04E-08	2.26E-07	3.47E-08	3.31E-07	3.09E-09	1.73E-08	2.04E-09	2.24E-08
2007	577280.38	4194594.07	4.25E-07	1.32E-06	2.07E-07	0.00E+00	1.95E-06	6.62E-08	2.13E-07	3.27E-08	3.12E-07	2.91E-09	1.63E-08	1.92E-09	2.11E-08
2008	577271.39	4194594.97	3.99E-07	1.24E-06	1.94E-07	0.00E+00	1.83E-06	6.22E-08	2.00E-07	3.07E-08	2.93E-07	2.73E-09	1.53E-08	1.80E-09	1.98E-08
2009	577259.42	4194596.18	3.64E-07	1.13E-06	1.77E-07	0.00E+00	1.67E-06	5.68E-08	1.83E-07	2.80E-08	2.67E-07	2.49E-09	1.39E-08	1.64E-09	1.81E-08
2010	577250.43	4194597.09	3.39E-07	1.05E-06	1.65E-07	0.00E+00	1.56E-06	5.29E-08	1.70E-07	2.61E-08	2.49E-07	2.32E-09	1.30E-08	1.53E-09	1.68E-08
2011	577377.3	4194593.79	4.76E-07	1.48E-06	2.32E-07	0.00E+00	2.19E-06	7.42E-08	2.39E-07	3.66E-08	3.49E-07	3.26E-09	1.82E-08	2.15E-09	2.36E-08
2012	577368.29	4194594.7	4.94E-07	1.54E-06	2.41E-07	0.00E+00	2.27E-06	7.70E-08	2.48E-07	3.80E-08	3.63E-07	3.38E-09	1.89E-08	2.23E-09	2.45E-08
2013	577359.28	4194595.61	5.07E-07	1.58E-06	2.47E-07	0.00E+00	2.33E-06	7.91E-08	2.54E-07	3.90E-08	3.72E-07	3.47E-09	1.94E-08	2.29E-09	2.52E-08
2014	577350.27	4194596.51	5.16E-07	1.60E-06	2.51E-07	0.00E+00	2.37E-06	8.04E-08	2.59E-07	3.97E-08	3.79E-07	3.53E-09	1.97E-08	2.33E-09	2.56E-08
2015	577341.26	4194597.42	5.18E-07	1.61E-06	2.52E-07	0.00E+00	2.38E-06	8.07E-08	2.60E-07	3.98E-08	3.80E-07	3.54E-09	1.98E-08	2.34E-09	2.57E-08
2016	577332.24	4194598.33	5.12E-07	1.59E-06	2.49E-07	0.00E+00	2.35E-06	7.98E-08	2.57E-07	3.93E-08	3.76E-07	3.50E-09	1.96E-08	2.31E-09	2.54E-08
2017	577323.23	4194599.24	5.00E-07	1.55E-06	2.43E-07	0.00E+00	2.30E-06	7.79E-08	2.51E-07	3.84E-08	3.67E-07	3.42E-09	1.91E-08	2.26E-09	2.48E-08
2018	577314.22	4194600.15	4.84E-07	1.50E-06	2.35E-07	0.00E+00	2.22E-06	7.54E-08	2.42E-07	3.72E-08	3.55E-07	3.31E-09	1.85E-08	2.18E-09	2.40E-08
2019	577305.21	4194601.06	4.64E-07	1.44E-06	2.26E-07	0.00E+00	2.13E-06	7.23E-08	2.33E-07	3.57E-08	3.40E-07	3.17E-09	1.77E-08	2.09E-09	2.30E-08
2020	577296.2	4194601.96	4.41E-07	1.37E-06	2.15E-07	0.00E+00	2.03E-06	6.87E-08	2.21E-07	3.39E-08	3.24E-07	3.02E-09	1.69E-08	1.99E-09	2.19E-08
2021	577287.19	4194602.87	4.16E-07	1.29E-06	2.03E-07	0.00E+00	1.91E-06	6.49E-08	2.09E-07	3.20E-08	3.05E-07	2.85E-09	1.59E-08	1.88E-09	2.06E-08
2022	577278.18	4194603.78	3.92E-07	1.22E-06	1.91E-07	0.00E+00	1.80E-06	6.10E-08	1.96E-07	3.01E-08	2.87E-07	2.68E-09	1.50E-08	1.77E-09	1.94E-08
2023	577269.17	4194604.69	3.67E-07	1.14E-06	1.79E-07	0.00E+00	1.69E-06	5.72E-08	1.84E-07	2.82E-08	2.69E-07	2.51E-09	1.40E-08	1.66E-09	1.82E-08
2024	577260.16	4194605.6	3.42E-07	1.06E-06	1.67E-07	0.00E+00	1.57E-06	5.34E-08	1.72E-07	2.63E-08	2.51E-07	2.34E-09	1.31E-08	1.54E-09	1.70E-08
2025	577251.15	4194606.51	3.19E-07	9.91E-07	1.55E-07	0.00E+00	1.47E-06	4.97E-08	1.60E-07	2.45E-08	2.34E-07	2.18E-09	1.22E-08	1.44E-09	1.58E-08
2026	577399.47	4194601.05	4.00E-07	1.24E-06	1.95E-07	0.00E+00	1.84E-06	6.23E-08	2.01E-07	3.08E-08	2.94E-07	2.74E-09	1.53E-08	1.80E-09	1.98E-08
2027	577390.44	4194601.96	4.23E-07	1.32E-06	2.06E-07	0.00E+00	1.95E-06	6.60E-08	2.12E-07	3.25E-08	3.11E-07	2.90E-09	1.62E-08	1.91E-09	2.10E-08
2028	577381.4	4194602.87	4.45E-07	1.38E-06	2.17E-07	0.00E+00	2.04E-06	6.93E-08	2.23E-07	3.42E-08	3.27E-07	3.04E-09	1.70E-08	2.01E-09	2.21E-08
2029	577372.36	4194603.78	4.64E-07	1.44E-06	2.26E-07	0.00E+00	2.13E-06	7.22E-08	2.32E-07	3.56E-08	3.40E-07	3.17E-09	1.77E-08	2.09E-09	2.30E-08
2030	577363.33	4194604.69	4.76E-07	1.48E-06	2.32E-07	0.00E+00	2.19E-06	7.42E-08	2.39E-07	3.66E-08	3.50E-07	3.26E-09	1.82E-08	2.15E-09	2.36E-08
2031	577354.29	4194605.6	4.85E-07	1.51E-06	2.36E-07	0.00E+00	2.23E-06	7.56E-08	2.43E-07	3.73E-08	3.56E-07	3.32E-09	1.86E-08	2.19E-09	2.41E-08
2032	577345.25	4194606.51	4.89E-07	1.52E-06	2.38E-07	0.00E+00	2.25E-06	7.62E-08	2.45E-07	3.76E-08	3.59E-07	3.34E-09	1.87E-08	2.21E-09	2.43E-08
2033	577336.22	4194607.42	4.85E-07	1.51E-06	2.36E-07	0.00E+00	2.23E-06	7.55E-08	2.43E-07	3.73E-08	3.56E-07	3.32E-09	1.85E-08	2.19E-09	2.41E-08
2034	577327.18	4194608.33	4.75E-07	1.48E-06	2.31E-07	0.00E+00	2.18E-06	7.40E-08	2.38E-07	3.65E-08	3.48E-07	3.25E-09	1.82E-08	2.14E-09	2.36E-08
2035	577318.14	4194609.24	4.60E-07	1.43E-06	2.24E-07	0.00E+00	2.12E-06	7.17E-08	2.31E-07	3.54E-08	3.38E-07	3.15E-09	1.76E-08	2.08E-09	2.28E-08
2036	577309.11	4194610.15	4.43E-07	1.38E-06	2.15E-07	0.00E+00	2.03E-06	6.90E-08	2.22E-07	3.40E-08	3.25E-07	3.03E-09	1.69E-08	2.00E-09	2.20E-08
2037	577300.07	4194611.07	4.23E-07	1.31E-06	2.06E-07	0.00E+00	1.94E-06	6.58E-08	2.12E-07	3.25E-08	3.10E-07	2.89E-09	1.62E-08	1.91E-09	2.10E-08
2038	577291.04	4194611.98	4.00E-07	1.24E-06	1.95E-07	0.00E+00	1.84E-06	6.24E-08	2.01E-07	3.08E-08	2.94E-07	2.74E-09	1.53E-08	1.80E-09	1.99E-08
2039	577282	4194612.89	3.77E-07	1.17E-06	1.83E-07	0.00E+00	1.73E-06	5.87E-08	1.89E-07	2.90E-08	2.76E-07	2.58E-09	1.44E-08	1.70E-09	1.87E-08
2040	577272.96	4194613.8	3.54E-07	1.10E-06	1.72E-07	0.00E+00	1.63E-06	5.51E-08	1.77E-07	2.72E-08	2.60E-07	2.42E-09	1.35E-08	1.60E-09	1.75E-08
2041	577263.93	4194614.71	3.30E-07	1.03E-06	1.61E-07	0.00E+00	1.52E-06	5.15E-08	1.66E-07	2.54E-08	2.42E-07	2.26E-09	1.26E-08	1.49E-09	1.64E-08
2042	577254.89	4194615.62	3.07E-07	9.55E-07	1.50E-07	0.00E+00	1.41E-06	4.79E-08	1.54E-07	2.36E-08	2.25E-07	2.10E-09	1.18E-08	1.39E-09	1.52E-08
2043	577245.85	4194616.53	2.87E-07	8.93E-07	1.40E-07	0.00E+00	1.32E-06	4.48E-08	1.44E-07	2.21E-08	2.11E-07	1.97E-09	1.10E-08	1.30E-09	1.43E-08
2044	577412.92	4194609.18	3.48E-07	1.08E-06	1.69E-07	0.00E+00	1.60E-06	5.42E-08	1.74E-07	2.67E-08	2.55E-07	2.38E-09	1.33E-08	1.57E-09	1.72E-08
2045	577401.02	4194610.38	3.80E-07	1.18E-06	1.85E-07	0.00E+00	1.74E-06	5.91E-08	1.90E-07	2.92E-08	2.79E-07	2.60E-09	1.45E-08	1.71E-09	1.88E-08
2046	577389.12	4194611.58	4.08E-07	1.27E-06	1.99E-07	0.00E+00	1.87E-06	6.35E-08	2.04E-07	3.13E-08	2.99E-07	2.79E-09	1.56E-08	1.84E-09	2.02E-08
2047	577377.22	4194612.78	4.33E-07	1.35E-06	2.11E-07	0.00E+00	1.99E-06	6.75E-08	2.17E-07	3.33E-08	3.18E-07	2.96E-09	1.66E-08	1.95E-09	2.15E-08
2048	577365.33	4194613.98	4.50E-07	1.40E-06	2.19E-07	0.00E+00	2.07E-06	7.02E-08	2.26E-07	3.46E-08	3.31E-07	3.08E-09	1.72E-08	2.03E-09	2.23E-08
2049	577353.43	4194615.18	4.60E-07	1.43E-06	2.24E-07	0.00E+00	2.11E-06	7.16E-08	2.30E-07	3.53E-08	3.37E-07	3.14E-09	1.76E-08	2.07E-09	2.28E-08
2050	577341.53	4194616.38	4.61E-07	1.43E-06	2.24E-07	0.00E+00	2.12E-06	7.18E-08	2.31E-07	3.54E-08	3.38E-07	3.15E-09	1.76E-08	2.08E-09	2.29E-08
2051	577329.63	4194617.58	4.50E-07	1.40E-06	2.19E-07	0.00E+00	2.07E-06	7.01E-08	2.25E-07	3.46E-08	3.30E-07	3.08E-09	1.72E-08	2.03E-09	2.23E-08
2052	577317.74	4194618.78	4.32E-07	1.34E-06	2.10E-07	0.00E+00	1.98E-06	6.73E-08	2.16E-07	3.32E-08	3.17E-07	2.95E-09	1.65E-08	1.95E-09	2.14E-08
2053	577305.84	4194619.98	4.09E-07	1.27E-06	1.99E-07	0.00E+00	1.88E-06	6.37E-08	2.05E-07	3.14E-08	3.00E-07	2.80E-09	1.57E-08	1.85E-09	2.03E-08
2054	577293.94	4194621.18	3.83E-07	1.19E-06	1.87E-07	0.00E+00	1.76E-06	5.97E-08	1.92E-07	2.95E-08	2.81E-07	2.62E-09	1.47E-08	1.73E-09	1.90E-08
2055	577282.04	4194622.37	3.55E-07	1.10E-06	1.73E-07	0.00E+00	1.63E-06	5.53E-08	1.78E-07	2.73E-08	2.60E-07	2.43E-09	1.36E-08	1.60E-09	1.76E-08
2056	577270.15	4194623.57	3.27E-07	1.02E-06	1.59E-07	0.00E+00	1.50E-06	5.09E-08	1.64E-07	2.51E-08	2.40E-07	2.23E-09	1.25E-08	1.47E-09	1.62E-08
2057	577258.25	4194624.77	2.98E-07	9.27E-07	1.45E-07	0.00E+00	1.37E-06	4.65E-08	1.49E-07	2.29E-08	2.19E-07	2.04E-09	1.14E-08	1.34E-09	1.48E-08
2058	577246.35	4194625.97	2.73E-07	8.47E-07	1.33E-07	0.00E+00	1.25E-06	4.25E-08	1.37E-07	2.09E-08	2.00E-07	1.86E-09	1.04E-08	1.23E-09	1.35E-08
2059	577429.02	4194617.05	2.94E-07	9.13E-07	1.43E-07	0.00E+00	1.35E-06	4.58E-08	1.47E-07	2.26E-08	2.16E-07	2.01E-09	1.12E-08	1.32E-09	1.46E-08
2060	577417.09	4194618.25	3.23E-07	1.00E-06	1.57E-07	0.00E+00	1.49E-06	5.04E-08	1.62E-07	2.48E-08	2.37E-07	2.21E-09	1.24E-08	1.46E-09	1.60E-08
2061	577405.16	4194619.46	3.53E-07	1.10E-06	1.72E-07	0.00E+00	1.62E-06	5.50E-08	1.77E-07	2.71E-08	2.59E-07	2.42E-09	1.35E-08	1.59E-09	1.75E-08
2062	577396.21	4194620.36	3.74E-07	1.16E-06	1.82E-07	0.00E+00	1.72E-06	5.83E-08	1.87E-07	2.87E-08	2.74E-07	2.56E-09	1.43E-08	1.69E-09	1.85E-08
2063	577384.28	4194621.56	3.99E-07	1.24E-06	1.94E-07	0.00E+00	1.84E-06	6.22E-08	2.00E-07	3.07E-08	2.93E-07	2.73E-09	1.53E-08	1.80E-09	1.98E-08
2064	577372.34	4194622.76	4.21E-07	1.31E-06	2.05E-07	0.00E+00	1.93E-06	6.56E-08	2.11E-07	3.24E-08	3.09E-07	2.88E-09	1.61E-08	1.90E-09	2.09E-08
2065	577363.4	4194623.67	4.30E-07	1.34E-06	2.09E-07	0.00E+00	1.98E-06	6.70E-08	2.16E-07	3.31E-08	3.16E-07	2.94E-09	1.65E-08	1.94E-09	2.13E-08
2066	577351.46	4194624.87	4.37E-07	1.36E-06	2.13E-07	0.00E+00	2.01E-06	6.81E-08	2.19E-07	3.36E-08	3.21E-07	2.99E-09	1.67E-08	1.97E-09	2.17E-08
2067	577339.53	4194626.07	4.35E-07	1.35E-06	2.12E-07	0.00E+00	2.00E-06	6.78E-08	2.18E-07	3.34E-08	3.19E-07	2.98E-09	1.66E-08	1.96E-09	2.16E-08
2068	577327.6	4194627.27	4.22E-07	1.31E-06	2.06E-07	0.00E+00	1.94E-06	6.58E-08	2.12E-07	3.25E-08	3.10E-07	2.89E-09	1.62E-08	1.90E-09	2.10E-08
2069	577318.65	4194628.18	4.09E-07	1.27E-06	1.99E-07	0.00E+00	1.88E-06	6.37E-08	2.05E-07	3.14E-08	3.00E-07	2.79E-09	1.56E-08	1.84E-09	2.03E-08
2070	577306.72	4194629.38	3.87E-07	1.20E-06	1.89E-07	0.00E+00	1.78E-06	6.04E-08	1.94E-07	2.98E-08	2.84E-07	2.65E-09	1.48E-08	1.75E-09	1.92E-08
2071	577294.78	4194630.58	3.63E-07	1.13E-06	1.77E-07	0.00E+00	1.67E-06	5.66E-08	1.82E-07	2.79E-08	2.67E-07	2.49E-09	1.39E-08	1.64E-09	1.80E-08

2072	577285.83	4194631.48	3.44E-07	1.07E-06	1.67E-07	0.00E+00	1.58E-06	5.36E-08	1.72E-07	2.64E-08	2.52E-07	2.35E-09	1.32E-08	1.55E-09	1.71E-08
2073	577273.9	4194632.69	3.17E-07	9.86E-07	1.54E-07	0.00E+00	1.46E-06	4.94E-08	1.59E-07	2.44E-08	2.33E-07	2.17E-09	1.21E-08	1.43E-09	1.57E-08
2074	577261.97	4194633.89	2.90E-07	9.02E-07	1.41E-07	0.00E+00	1.33E-06	4.52E-08	1.46E-07	2.23E-08	2.13E-07	1.99E-09	1.11E-08	1.31E-09	1.44E-08
2075	577253.02	4194634.79	2.71E-07	8.42E-07	1.32E-07	0.00E+00	1.24E-06	4.22E-08	1.36E-07	2.08E-08	1.99E-07	1.85E-09	1.04E-08	1.22E-09	1.34E-08
2076	577241.09	4194635.99	2.48E-07	7.71E-07	1.21E-07	0.00E+00	1.14E-06	3.87E-08	1.24E-07	1.91E-08	1.82E-07	1.70E-09	9.49E-09	1.12E-09	1.23E-08
2077	577440.54	4194621.63	2.62E-07	8.15E-07	1.28E-07	0.00E+00	1.20E-06	4.08E-08	1.31E-07	2.01E-08	1.92E-07	1.79E-09	1.00E-08	1.18E-09	1.30E-08
2078	577430.24	4194626.42	2.79E-07	8.66E-07	1.36E-07	0.00E+00	1.28E-06	4.34E-08	1.40E-07	2.14E-08	2.04E-07	1.91E-09	1.07E-08	1.26E-09	1.38E-08
2079	577421.27	4194627.32	2.99E-07	9.30E-07	1.46E-07	0.00E+00	1.37E-06	4.66E-08	1.50E-07	2.30E-08	2.20E-07	2.05E-09	1.14E-08	1.35E-09	1.48E-08
2080	577409.3	4194628.53	3.27E-07	1.02E-06	1.59E-07	0.00E+00	1.50E-06	5.10E-08	1.64E-07	2.52E-08	2.40E-07	2.24E-09	1.25E-08	1.48E-09	1.62E-08
2081	577400.33	4194629.44	3.48E-07	1.08E-06	1.69E-07	0.00E+00	1.60E-06	5.42E-08	1.74E-07	2.67E-08	2.55E-07	2.38E-09	1.33E-08	1.57E-09	1.73E-08
2082	577388.36	4194630.64	3.73E-07	1.16E-06	1.82E-07	0.00E+00	1.71E-06	5.81E-08	1.87E-07	2.87E-08	2.74E-07	2.55E-09	1.43E-08	1.68E-09	1.85E-08
2083	577379.39	4194631.55	3.90E-07	1.21E-06	1.90E-07	0.00E+00	1.79E-06	6.08E-08	1.95E-07	3.00E-08	2.86E-07	2.67E-09	1.49E-08	1.76E-09	1.93E-08
2084	577367.42	4194632.75	4.06E-07	1.26E-06	1.98E-07	0.00E+00	1.87E-06	6.33E-08	2.04E-07	3.12E-08	2.98E-07	2.78E-09	1.55E-08	1.83E-09	2.01E-08
2085	577358.45	4194633.66	4.12E-07	1.28E-06	2.01E-07	0.00E+00	1.89E-06	6.43E-08	2.07E-07	3.17E-08	3.03E-07	2.82E-09	1.58E-08	1.86E-09	2.05E-08
2086	577346.48	4194634.86	4.16E-07	1.29E-06	2.02E-07	0.00E+00	1.91E-06	6.48E-08	2.08E-07	3.20E-08	3.05E-07	2.84E-09	1.59E-08	1.87E-09	2.06E-08
2087	577337.51	4194635.77	4.11E-07	1.28E-06	2.00E-07	0.00E+00	1.89E-06	6.40E-08	2.06E-07	3.16E-08	3.01E-07	2.81E-09	1.57E-08	1.85E-09	2.04E-08
2088	577325.55	4194636.97	3.97E-07	1.23E-06	1.93E-07	0.00E+00	1.82E-06	6.18E-08	1.99E-07	3.05E-08	2.91E-07	2.71E-09	1.52E-08	1.79E-09	1.97E-08
2089	577316.57	4194637.88	3.82E-07	1.19E-06	1.86E-07	0.00E+00	1.76E-06	5.96E-08	1.92E-07	2.94E-08	2.81E-07	2.62E-09	1.46E-08	1.72E-09	1.90E-08
2090	577304.61	4194639.08	3.62E-07	1.13E-06	1.76E-07	0.00E+00	1.66E-06	5.64E-08	1.81E-07	2.78E-08	2.66E-07	2.48E-09	1.38E-08	1.63E-09	1.80E-08
2091	577295.63	4194639.99	3.45E-07	1.07E-06	1.68E-07	0.00E+00	1.59E-06	5.38E-08	1.73E-07	2.65E-08	2.53E-07	2.36E-09	1.32E-08	1.56E-09	1.71E-08
2092	577283.67	4194641.19	3.21E-07	9.97E-07	1.56E-07	0.00E+00	1.47E-06	5.00E-08	1.61E-07	2.46E-08	2.35E-07	2.19E-09	1.23E-08	1.45E-09	1.59E-08
2093	577274.69	4194642.1	3.02E-07	9.38E-07	1.47E-07	0.00E+00	1.39E-06	4.70E-08	1.51E-07	2.32E-08	2.22E-07	2.06E-09	1.15E-08	1.36E-09	1.50E-08
2094	577265.72	4194643	2.83E-07	8.79E-07	1.38E-07	0.00E+00	1.30E-06	4.41E-08	1.42E-07	2.17E-08	2.08E-07	1.93E-09	1.08E-08	1.28E-09	1.40E-08
2095	577253.75	4194644.21	2.58E-07	8.02E-07	1.26E-07	0.00E+00	1.19E-06	4.02E-08	1.29E-07	1.98E-08	1.89E-07	1.77E-09	9.88E-09	1.16E-09	1.28E-08
2096	577244.78	4194645.11	2.42E-07	7.52E-07	1.18E-07	0.00E+00	1.11E-06	3.77E-08	1.21E-07	1.86E-08	1.77E-07	1.65E-09	9.25E-09	1.09E-09	1.20E-08

			T2		1677	T2L3			T4		
			1673	577234.32	4194276.73						
			1.28E-02	4.31E-02	3.36E-02	1.99E-03	6.95E-03	5.31E-03	8.76E-05	5.30E-04	3.11E-04
	UTM X	UTM Y	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3
1	577330.13	4194344.72	7.57E-03	2.55E-02	1.99E-02	1.18E-03	4.11E-03	3.14E-03	5.18E-05	3.14E-04	1.84E-04
2	577339.31	4194348.63	5.62E-03	1.89E-02	1.48E-02	8.76E-04	3.05E-03	2.33E-03	3.85E-05	2.33E-04	1.37E-04
3	577348.49	4194352.54	4.30E-03	1.45E-02	1.13E-02	6.70E-04	2.33E-03	1.78E-03	2.94E-05	1.78E-04	1.05E-04
4	577334.42	4194332.31	9.18E-03	3.09E-02	2.41E-02	1.43E-03	4.98E-03	3.81E-03	6.28E-05	3.80E-04	2.23E-04
5	577343.94	4194335.37	6.74E-03	2.27E-02	1.77E-02	1.05E-03	3.66E-03	2.80E-03	4.61E-05	2.79E-04	1.64E-04
6	577353.46	4194338.42	5.07E-03	1.71E-02	1.33E-02	7.90E-04	2.75E-03	2.10E-03	3.47E-05	2.10E-04	1.23E-04
7	577362.98	4194341.47	3.95E-03	1.33E-02	1.04E-02	6.16E-04	2.15E-03	1.64E-03	2.70E-05	1.64E-04	9.62E-05
8	577372.51	4194344.53	3.17E-03	1.07E-02	8.34E-03	4.95E-04	1.72E-03	1.32E-03	2.17E-05	1.31E-04	7.72E-05
9	577380	4194353.91	2.51E-03	8.44E-03	6.59E-03	3.91E-04	1.36E-03	1.04E-03	1.72E-05	1.04E-04	6.10E-05
10	577389.52	4194356.96	2.17E-03	7.29E-03	5.69E-03	3.37E-04	1.18E-03	8.98E-04	1.48E-05	8.97E-05	5.27E-05
11	577346.39	4194326.47	7.69E-03	2.59E-02	2.02E-02	1.20E-03	4.17E-03	3.19E-03	5.26E-05	3.18E-04	1.87E-04
12	577356.04	4194329.08	5.75E-03	1.93E-02	1.51E-02	8.96E-04	3.12E-03	2.38E-03	3.93E-05	2.38E-04	1.40E-04
13	577365.7	4194331.68	4.47E-03	1.50E-02	1.17E-02	6.96E-04	2.43E-03	1.85E-03	3.06E-05	1.85E-04	1.09E-04
14	577375.35	4194334.29	3.58E-03	1.21E-02	9.40E-03	5.58E-04	1.94E-03	1.48E-03	2.45E-05	1.48E-04	8.71E-05
15	577383.08	4194344.01	2.77E-03	9.32E-03	7.27E-03	4.31E-04	1.50E-03	1.15E-03	1.89E-05	1.15E-04	6.74E-05
16	577392.74	4194346.61	2.37E-03	7.98E-03	6.22E-03	3.69E-04	1.29E-03	9.82E-04	1.62E-05	9.82E-05	5.76E-05
17	577402.39	4194349.22	2.06E-03	6.92E-03	5.40E-03	3.20E-04	1.12E-03	8.52E-04	1.41E-05	8.52E-05	5.00E-05
18	577412.05	4194351.83	1.85E-03	6.21E-03	4.85E-03	2.88E-04	1.00E-03	7.65E-04	1.26E-05	7.64E-05	4.49E-05
19	577421.7	4194354.43	1.66E-03	5.60E-03	4.37E-03	2.59E-04	9.03E-04	6.90E-04	1.14E-05	6.90E-05	4.05E-05
20	577431.35	4194357.04	1.51E-03	5.07E-03	3.95E-03	2.35E-04	8.17E-04	6.24E-04	1.03E-05	6.23E-05	3.66E-05
21	577441.01	4194359.65	1.36E-03	4.59E-03	3.58E-03	2.12E-04	7.39E-04	5.65E-04	9.32E-06	5.64E-05	3.31E-05
22	577450.66	4194362.26	1.24E-03	4.16E-03	3.25E-03	1.93E-04	6.71E-04	5.13E-04	8.45E-06	5.12E-05	3.01E-05
23	577462.24	4194357.75	1.16E-03	3.91E-03	3.05E-03	1.81E-04	6.30E-04	4.82E-04	7.94E-06	4.81E-05	2.83E-05
24	577471.89	4194360.36	1.05E-03	3.53E-03	2.76E-03	1.64E-04	5.70E-04	4.35E-04	7.18E-06	4.35E-05	2.56E-05
25	577481.55	4194362.97	9.52E-04	3.20E-03	2.50E-03	1.48E-04	5.17E-04	3.95E-04	6.51E-06	3.94E-05	2.32E-05
26	577491.2	4194365.57	8.67E-04	2.92E-03	2.28E-03	1.35E-04	4.70E-04	3.59E-04	5.93E-06	3.59E-05	2.11E-05
27	577500.85	4194368.18	7.92E-04	2.67E-03	2.08E-03	1.23E-04	4.30E-04	3.29E-04	5.42E-06	3.28E-05	1.93E-05
28	577510.51	4194370.79	7.27E-04	2.45E-03	1.91E-03	1.13E-04	3.94E-04	3.01E-04	4.97E-06	3.01E-05	1.77E-05
29	577520.16	4194373.39	6.67E-04	2.25E-03	1.75E-03	1.04E-04	3.62E-04	2.77E-04	4.56E-06	2.76E-05	1.62E-05
30	577337.13	4194322.21	1.08E-02	3.63E-02	2.83E-02	1.68E-03	5.85E-03	4.47E-03	7.37E-05	4.47E-04	2.62E-04
31	577348.39	4194317.26	8.70E-03	2.93E-02	2.29E-02	1.36E-03	4.72E-03	3.61E-03	5.95E-05	3.61E-04	2.12E-04
32	577358.17	4194319.32	6.51E-03	2.19E-02	1.71E-02	1.01E-03	3.53E-03	2.70E-03	4.45E-05	2.70E-04	1.58E-04
33	577367.96	4194321.37	5.04E-03	1.70E-02	1.32E-02	7.86E-04	2.74E-03	2.09E-03	3.45E-05	2.09E-04	1.23E-04
34	577377.75	4194323.43	4.02E-03	1.35E-02	1.06E-02	6.27E-04	2.18E-03	1.67E-03	2.75E-05	1.67E-04	9.79E-05
35	577386.06	4194332.48	3.10E-03	1.04E-02	8.15E-03	4.83E-04	1.68E-03	1.29E-03	2.12E-05	1.29E-04	7.55E-05
36	577395.85	4194334.54	2.62E-03	8.82E-03	6.88E-03	4.08E-04	1.42E-03	1.09E-03	1.79E-05	1.09E-04	6.38E-05
37	577405.64	4194336.59	2.26E-03	7.62E-03	5.94E-03	3.53E-04	1.23E-03	9.39E-04	1.55E-05	9.38E-05	5.51E-05
38	577415.42	4194338.65	2.02E-03	6.81E-03	5.31E-03	3.15E-04	1.10E-03	8.39E-04	1.38E-05	8.38E-05	4.92E-05
39	577425.21	4194340.7	1.81E-03	6.10E-03	4.76E-03	2.82E-04	9.84E-04	7.52E-04	1.24E-05	7.51E-05	4.41E-05
40	577434.13	4194346.34	1.60E-03	5.38E-03	4.20E-03	2.49E-04	8.68E-04	6.63E-04	1.09E-05	6.62E-05	3.89E-05
41	577436.46	4194335.76	1.69E-03	5.68E-03	4.43E-03	2.63E-04	9.16E-04	7.00E-04	1.15E-05	6.99E-05	4.11E-05
42	577443.86	4194348.68	1.44E-03	4.85E-03	3.79E-03	2.25E-04	7.82E-04	5.98E-04	9.86E-06	5.97E-05	3.51E-05
43	577446.25	4194337.81	1.52E-03	5.11E-03	3.99E-03	2.37E-04	8.24E-04	6.30E-04	1.04E-05	6.29E-05	3.70E-05
44	577453.58	4194351.01	1.30E-03	4.39E-03	3.43E-03	2.03E-04	7.08E-04	5.41E-04	8.92E-06	5.40E-05	3.17E-05
45	577456.04	4194339.87	1.37E-03	4.61E-03	3.60E-03	2.14E-04	7.44E-04	5.68E-04	9.38E-06	5.68E-05	3.34E-05
46	577464.35	4194348.92	1.20E-03	4.05E-03	3.16E-03	1.88E-04	6.53E-04	4.99E-04	8.23E-06	4.99E-05	2.93E-05
47	577474.14	4194350.98	1.09E-03	3.66E-03	2.85E-03	1.69E-04	5.89E-04	4.50E-04	7.43E-06	4.50E-05	2.64E-05
48	577483.93	4194353.03	9.85E-04	3.32E-03	2.59E-03	1.53E-04	5.35E-04	4.08E-04	6.74E-06	4.08E-05	2.40E-05
49	577493.71	4194355.09	8.97E-04	3.02E-03	2.36E-03	1.40E-04	4.87E-04	3.72E-04	6.14E-06	3.72E-05	2.18E-05
50	577503.5	4194357.14	8.20E-04	2.76E-03	2.15E-03	1.28E-04	4.45E-04	3.40E-04	5.61E-06	3.40E-05	2.00E-05
51	577513.29	4194359.2	7.52E-04	2.53E-03	1.98E-03	1.17E-04	4.08E-04	3.12E-04	5.15E-06	3.12E-05	1.83E-05
52	577523.07	4194361.25	6.92E-04	2.33E-03	1.82E-03	1.08E-04	3.76E-04	2.87E-04	4.73E-06	2.87E-05	1.68E-05
53	577531.34	4194369.66	6.25E-04	2.10E-03	1.64E-03	9.73E-05	3.39E-04	2.59E-04	4.27E-06	2.59E-05	1.52E-05
54	577534.33	4194356.31	6.47E-04	2.18E-03	1.70E-03	1.01E-04	3.51E-04	2.68E-04	4.43E-06	2.68E-05	1.57E-05
55	577541.06	4194371.99	5.75E-04	1.94E-03	1.51E-03	8.96E-05	3.12E-04	2.38E-04	3.93E-06	2.38E-05	1.40E-05
56	577544.12	4194358.36	5.95E-04	2.00E-03	1.56E-03	9.27E-05	3.23E-04	2.47E-04	4.07E-06	2.46E-05	1.45E-05
57	577550.78	4194374.32	5.31E-04	1.79E-03	1.39E-03	8.27E-05	2.88E-04	2.20E-04	3.63E-06	2.20E-05	1.29E-05
58	577553.9	4194360.42	5.48E-04	1.85E-03	1.44E-03	8.54E-05	2.98E-04	2.27E-04	3.75E-06	2.27E-05	1.33E-05

59	577561.07	4194374.26	4.93E-04	1.66E-03	1.29E-03	7.68E-05	2.68E-04	2.04E-04	3.37E-06	2.04E-05	1.20E-05
60	577563.69	4194362.47	5.05E-04	1.70E-03	1.33E-03	7.87E-05	2.74E-04	2.09E-04	3.45E-06	2.09E-05	1.23E-05
61	577570.82	4194376.5	4.56E-04	1.54E-03	1.20E-03	7.11E-05	2.48E-04	1.89E-04	3.12E-06	1.89E-05	1.11E-05
62	577573.48	4194364.53	4.66E-04	1.57E-03	1.22E-03	7.26E-05	2.53E-04	1.93E-04	3.19E-06	1.93E-05	1.13E-05
63	577580.56	4194378.74	4.24E-04	1.43E-03	1.11E-03	6.60E-05	2.30E-04	1.76E-04	2.90E-06	1.76E-05	1.03E-05
64	577583.26	4194366.58	4.31E-04	1.45E-03	1.13E-03	6.72E-05	2.34E-04	1.79E-04	2.95E-06	1.79E-05	1.05E-05
65	577590.3	4194380.97	3.98E-04	1.34E-03	1.05E-03	6.21E-05	2.16E-04	1.65E-04	2.72E-06	1.65E-05	9.69E-06
66	577593.05	4194368.64	4.07E-04	1.37E-03	1.07E-03	6.34E-05	2.21E-04	1.69E-04	2.78E-06	1.69E-05	9.90E-06
67	577600.04	4194383.21	3.77E-04	1.27E-03	9.89E-04	5.87E-05	2.04E-04	1.56E-04	2.58E-06	1.56E-05	9.16E-06
68	577602.84	4194370.7	3.85E-04	1.30E-03	1.01E-03	6.00E-05	2.09E-04	1.60E-04	2.63E-06	1.59E-05	9.36E-06
69	577609.79	4194385.45	3.56E-04	1.20E-03	9.35E-04	5.55E-05	1.93E-04	1.48E-04	2.44E-06	1.48E-05	8.66E-06
70	577612.62	4194372.75	3.64E-04	1.23E-03	9.57E-04	5.68E-05	1.98E-04	1.51E-04	2.49E-06	1.51E-05	8.87E-06
71	577619.53	4194387.69	3.37E-04	1.14E-03	8.86E-04	5.26E-05	1.83E-04	1.40E-04	2.31E-06	1.40E-05	8.21E-06
72	577622.41	4194374.81	3.46E-04	1.16E-03	9.09E-04	5.39E-05	1.88E-04	1.43E-04	2.37E-06	1.43E-05	8.42E-06
73	577340.33	4194307.04	1.29E-02	4.35E-02	3.40E-02	2.02E-03	7.02E-03	5.36E-03	8.85E-05	5.36E-04	3.15E-04
74	577343.82	4194290.6	1.37E-02	4.60E-02	3.59E-02	2.13E-03	7.42E-03	5.67E-03	9.35E-05	5.66E-04	3.32E-04
75	577351.86	4194300.89	9.81E-03	3.30E-02	2.58E-02	1.53E-03	5.32E-03	4.07E-03	6.71E-05	4.06E-04	2.39E-04
76	577355.34	4194284.45	9.85E-03	3.31E-02	2.59E-02	1.53E-03	5.34E-03	4.08E-03	6.74E-05	4.08E-04	2.40E-04
77	577361.64	4194302.97	7.39E-03	2.49E-02	1.94E-02	1.15E-03	4.01E-03	3.06E-03	5.05E-05	3.06E-04	1.80E-04
78	577365.12	4194286.53	7.62E-03	2.57E-02	2.00E-02	1.19E-03	4.14E-03	3.16E-03	5.21E-05	3.16E-04	1.85E-04
79	577371.42	4194305.04	5.74E-03	1.93E-02	1.51E-02	8.95E-04	3.12E-03	2.38E-03	3.93E-05	2.38E-04	1.40E-04
80	577374.91	4194288.6	6.05E-03	2.04E-02	1.59E-02	9.43E-04	3.28E-03	2.51E-03	4.14E-05	2.51E-04	1.47E-04
81	577381.2	4194307.12	4.58E-03	1.54E-02	1.20E-02	7.14E-04	2.49E-03	1.90E-03	3.13E-05	1.90E-04	1.11E-04
82	577384.69	4194290.68	4.90E-03	1.65E-02	1.29E-02	7.63E-04	2.66E-03	2.03E-03	3.35E-05	2.03E-04	1.19E-04
83	577389.24	4194317.41	3.50E-03	1.18E-02	9.19E-03	5.45E-04	1.90E-03	1.45E-03	2.39E-05	1.45E-04	8.51E-05
84	577392.73	4194300.97	3.90E-03	1.31E-02	1.02E-02	6.08E-04	2.12E-03	1.62E-03	2.67E-05	1.62E-04	9.49E-05
85	577399.03	4194319.48	2.90E-03	9.76E-03	7.61E-03	4.52E-04	1.57E-03	1.20E-03	1.98E-05	1.20E-04	7.05E-05
86	577402.51	4194303.04	3.24E-03	1.09E-02	8.50E-03	5.05E-04	1.76E-03	1.34E-03	2.21E-05	1.34E-04	7.88E-05
87	577408.81	4194321.56	2.50E-03	8.40E-03	6.56E-03	3.89E-04	1.36E-03	1.04E-03	1.71E-05	1.03E-04	6.07E-05
88	577412.29	4194305.12	2.77E-03	9.32E-03	7.27E-03	4.31E-04	1.50E-03	1.15E-03	1.89E-05	1.15E-04	6.74E-05
89	577418.59	4194323.63	2.21E-03	7.43E-03	5.80E-03	3.44E-04	1.20E-03	9.15E-04	1.51E-05	9.14E-05	5.37E-05
90	577422.08	4194307.19	2.40E-03	8.08E-03	6.30E-03	3.74E-04	1.30E-03	9.95E-04	1.64E-05	9.94E-05	5.84E-05
91	577428.37	4194325.7	1.96E-03	6.59E-03	5.14E-03	3.05E-04	1.06E-03	8.12E-04	1.34E-05	8.11E-05	4.76E-05
92	577431.86	4194309.26	2.10E-03	7.07E-03	5.51E-03	3.27E-04	1.14E-03	8.70E-04	1.44E-05	8.70E-05	5.11E-05
93	577439.9	4194319.56	1.80E-03	6.07E-03	4.74E-03	2.81E-04	9.79E-04	7.48E-04	1.23E-05	7.47E-05	4.39E-05
94	577443.38	4194303.12	1.90E-03	6.40E-03	4.99E-03	2.96E-04	1.03E-03	7.88E-04	1.30E-05	7.87E-05	4.62E-05
95	577449.68	4194321.63	1.62E-03	5.45E-03	4.25E-03	2.52E-04	8.78E-04	6.71E-04	1.11E-05	6.70E-05	3.94E-05
96	577453.17	4194305.19	1.68E-03	5.65E-03	4.41E-03	2.62E-04	9.11E-04	6.96E-04	1.15E-05	6.95E-05	4.08E-05
97	577459.46	4194323.71	1.45E-03	4.87E-03	3.80E-03	2.26E-04	7.86E-04	6.00E-04	9.90E-06	6.00E-05	3.52E-05
98	577462.95	4194307.27	1.49E-03	5.02E-03	3.92E-03	2.32E-04	8.09E-04	6.18E-04	1.02E-05	6.18E-05	3.63E-05
99	577467.5	4194334	1.27E-03	4.26E-03	3.33E-03	1.97E-04	6.88E-04	5.25E-04	8.67E-06	5.25E-05	3.08E-05
100	577470.99	4194317.56	1.32E-03	4.44E-03	3.46E-03	2.05E-04	7.15E-04	5.46E-04	9.01E-06	5.46E-05	3.21E-05
101	577477.29	4194336.07	1.14E-03	3.84E-03	3.00E-03	1.78E-04	6.19E-04	4.73E-04	7.80E-06	4.73E-05	2.78E-05
102	577480.77	4194319.63	1.18E-03	3.99E-03	3.11E-03	1.85E-04	6.43E-04	4.91E-04	8.10E-06	4.91E-05	2.88E-05
103	577487.07	4194338.15	1.03E-03	3.47E-03	2.71E-03	1.61E-04	5.60E-04	4.28E-04	7.06E-06	4.28E-05	2.51E-05
104	577490.55	4194321.71	1.07E-03	3.60E-03	2.81E-03	1.67E-04	5.81E-04	4.44E-04	7.32E-06	4.43E-05	2.60E-05
105	577496.85	4194340.22	9.38E-04	3.16E-03	2.46E-03	1.46E-04	5.09E-04	3.89E-04	6.42E-06	3.89E-05	2.28E-05
106	577500.34	4194323.78	9.73E-04	3.27E-03	2.55E-03	1.52E-04	5.28E-04	4.03E-04	6.65E-06	4.03E-05	2.37E-05
107	577506.63	4194342.29	8.56E-04	2.88E-03	2.25E-03	1.33E-04	4.65E-04	3.55E-04	5.85E-06	3.55E-05	2.08E-05
108	577510.12	4194325.85	8.87E-04	2.99E-03	2.33E-03	1.38E-04	4.81E-04	3.68E-04	6.07E-06	3.67E-05	2.16E-05
109	577516.42	4194344.37	7.84E-04	2.64E-03	2.06E-03	1.22E-04	4.25E-04	3.25E-04	5.36E-06	3.25E-05	1.91E-05
110	577519.9	4194327.93	8.11E-04	2.73E-03	2.13E-03	1.26E-04	4.40E-04	3.36E-04	5.55E-06	3.36E-05	1.97E-05
111	577526.2	4194346.44	7.20E-04	2.42E-03	1.89E-03	1.12E-04	3.91E-04	2.99E-04	4.93E-06	2.98E-05	1.75E-05
112	577529.69	4194330	7.44E-04	2.50E-03	1.95E-03	1.16E-04	4.04E-04	3.09E-04	5.09E-06	3.08E-05	1.81E-05
113	577537.73	4194340.3	6.70E-04	2.26E-03	1.76E-03	1.04E-04	3.64E-04	2.78E-04	4.58E-06	2.78E-05	1.63E-05
114	577541.21	4194323.86	6.87E-04	2.31E-03	1.80E-03	1.07E-04	3.73E-04	2.85E-04	4.70E-06	2.84E-05	1.67E-05
115	577547.51	4194342.37	6.14E-04	2.07E-03	1.61E-03	9.57E-05	3.33E-04	2.55E-04	4.20E-06	2.55E-05	1.49E-05
116	577550.99	4194325.93	6.28E-04	2.11E-03	1.65E-03	9.79E-05	3.41E-04	2.61E-04	4.30E-06	2.60E-05	1.53E-05
117	577557.29	4194344.44	5.64E-04	1.90E-03	1.48E-03	8.79E-05	3.06E-04	2.34E-04	3.86E-06	2.34E-05	1.37E-05
118	577560.78	4194328	5.75E-04	1.93E-03	1.51E-03	8.95E-05	3.12E-04	2.38E-04	3.93E-06	2.38E-05	1.40E-05
119	577567.07	4194346.52	5.17E-04	1.74E-03	1.36E-03	8.06E-05	2.81E-04	2.14E-04	3.54E-06	2.14E-05	1.26E-05
120	577570.56	4194330.08	5.26E-04	1.77E-03	1.38E-03	8.20E-05	2.86E-04	2.18E-04	3.60E-06	2.18E-05	1.28E-05

121	577576.86	4194348.59	4.76E-04	1.60E-03	1.25E-03	7.41E-05	2.58E-04	1.97E-04	3.25E-06	1.97E-05	1.16E-05
122	577580.34	4194332.15	4.83E-04	1.63E-03	1.27E-03	7.53E-05	2.62E-04	2.00E-04	3.30E-06	2.00E-05	1.18E-05
123	577586.64	4194350.66	4.42E-04	1.49E-03	1.16E-03	6.88E-05	2.40E-04	1.83E-04	3.02E-06	1.83E-05	1.07E-05
124	577590.12	4194334.22	4.51E-04	1.52E-03	1.18E-03	7.02E-05	2.45E-04	1.87E-04	3.08E-06	1.87E-05	1.10E-05
125	577596.42	4194352.74	4.17E-04	1.40E-03	1.09E-03	6.49E-05	2.26E-04	1.73E-04	2.85E-06	1.73E-05	1.01E-05
126	577599.91	4194336.3	4.24E-04	1.43E-03	1.11E-03	6.61E-05	2.30E-04	1.76E-04	2.90E-06	1.76E-05	1.03E-05
127	577606.2	4194354.81	3.94E-04	1.33E-03	1.03E-03	6.14E-05	2.14E-04	1.63E-04	2.69E-06	1.63E-05	9.58E-06
128	577609.69	4194338.37	4.01E-04	1.35E-03	1.05E-03	6.24E-05	2.17E-04	1.66E-04	2.74E-06	1.66E-05	9.74E-06
129	577615.99	4194356.89	3.73E-04	1.26E-03	9.80E-04	5.82E-05	2.03E-04	1.55E-04	2.55E-06	1.55E-05	9.08E-06
130	577619.47	4194340.45	3.81E-04	1.28E-03	1.00E-03	5.93E-05	2.07E-04	1.58E-04	2.60E-06	1.58E-05	9.26E-06
131	577625.77	4194358.96	3.55E-04	1.19E-03	9.32E-04	5.53E-05	1.93E-04	1.47E-04	2.43E-06	1.47E-05	8.64E-06
132	577629.25	4194342.52	3.63E-04	1.22E-03	9.54E-04	5.66E-05	1.97E-04	1.51E-04	2.48E-06	1.50E-05	8.84E-06
133	577342.92	4194267.59	1.30E-02	4.36E-02	3.40E-02	2.02E-03	7.03E-03	5.37E-03	8.86E-05	5.37E-04	3.15E-04
134	577314.28	4194244.81	1.85E-02	6.24E-02	4.87E-02	2.89E-03	1.01E-02	7.68E-03	1.27E-04	7.68E-04	4.51E-04
135	577305.25	4194242.61	2.09E-02	7.02E-02	5.48E-02	3.25E-03	1.13E-02	8.65E-03	1.43E-04	8.65E-04	5.08E-04
136	577296.21	4194240.41	2.25E-02	7.56E-02	5.90E-02	3.50E-03	1.22E-02	9.31E-03	1.54E-04	9.30E-04	5.46E-04
137	577343.97	4194250.47	1.01E-02	3.40E-02	2.65E-02	1.57E-03	5.48E-03	4.18E-03	6.90E-05	4.18E-04	2.45E-04
138	577351.39	4194262.26	9.73E-03	3.28E-02	2.56E-02	1.52E-03	5.28E-03	4.03E-03	6.66E-05	4.03E-04	2.37E-04
139	577316.65	4194235.1	1.37E-02	4.62E-02	3.61E-02	2.14E-03	7.45E-03	5.70E-03	9.39E-05	5.69E-04	3.34E-04
140	577307.61	4194232.89	1.50E-02	5.05E-02	3.94E-02	2.34E-03	8.15E-03	6.23E-03	1.03E-04	6.22E-04	3.65E-04
141	577298.58	4194230.69	1.59E-02	5.35E-02	4.18E-02	2.48E-03	8.63E-03	6.59E-03	1.09E-04	6.59E-04	3.87E-04
142	577346.34	4194240.76	8.44E-03	2.84E-02	2.22E-02	1.31E-03	4.58E-03	3.50E-03	5.77E-05	3.50E-04	2.05E-04
143	577359.85	4194256.94	7.56E-03	2.54E-02	1.99E-02	1.18E-03	4.10E-03	3.13E-03	5.17E-05	3.13E-04	1.84E-04
144	577362.49	4194271.73	7.98E-03	2.68E-02	2.09E-02	1.24E-03	4.33E-03	3.31E-03	5.45E-05	3.30E-04	1.94E-04
145	577319.02	4194225.38	1.06E-02	3.57E-02	2.79E-02	1.65E-03	5.76E-03	4.40E-03	7.26E-05	4.39E-04	2.58E-04
146	577309.98	4194223.18	1.14E-02	3.84E-02	2.99E-02	1.78E-03	6.18E-03	4.72E-03	7.79E-05	4.72E-04	2.77E-04
147	577300.95	4194220.98	1.20E-02	4.03E-02	3.14E-02	1.86E-03	6.49E-03	4.96E-03	8.18E-05	4.96E-04	2.91E-04
148	577352.37	4194233.68	6.89E-03	2.32E-02	1.81E-02	1.07E-03	3.74E-03	2.86E-03	4.71E-05	2.85E-04	1.68E-04
149	577359.68	4194238.95	6.39E-03	2.15E-02	1.68E-02	9.96E-04	3.47E-03	2.65E-03	4.37E-05	2.65E-04	1.56E-04
150	577368.58	4194253.09	6.12E-03	2.06E-02	1.61E-02	9.54E-04	3.32E-03	2.54E-03	4.19E-05	2.54E-04	1.49E-04
151	577370.16	4194261.97	6.34E-03	2.13E-02	1.67E-02	9.88E-04	3.44E-03	2.63E-03	4.34E-05	2.63E-04	1.54E-04
152	577330.42	4194217.87	7.92E-03	2.67E-02	2.08E-02	1.23E-03	4.30E-03	3.28E-03	5.42E-05	3.28E-04	1.93E-04
153	577321.38	4194215.66	8.59E-03	2.89E-02	2.26E-02	1.34E-03	4.66E-03	3.56E-03	5.87E-05	3.56E-04	2.09E-04
154	577312.35	4194213.46	9.10E-03	3.06E-02	2.39E-02	1.42E-03	4.94E-03	3.77E-03	6.22E-05	3.77E-04	2.21E-04
155	577303.32	4194211.26	9.42E-03	3.17E-02	2.47E-02	1.47E-03	5.11E-03	3.91E-03	6.44E-05	3.90E-04	2.29E-04
156	577294.28	4194209.06	9.47E-03	3.19E-02	2.49E-02	1.48E-03	5.14E-03	3.93E-03	6.47E-05	3.92E-04	2.30E-04
157	577285.25	4194206.86	9.23E-03	3.11E-02	2.42E-02	1.44E-03	5.01E-03	3.83E-03	6.31E-05	3.82E-04	2.25E-04
158	577354.13	4194223.52	5.93E-03	2.00E-02	1.56E-02	9.24E-04	3.22E-03	2.46E-03	4.06E-05	2.46E-04	1.44E-04
159	577368.35	4194233.77	5.23E-03	1.76E-02	1.37E-02	8.15E-04	2.84E-03	2.17E-03	3.58E-05	2.17E-04	1.27E-04
160	577377	4194247.52	5.04E-03	1.70E-02	1.32E-02	7.86E-04	2.74E-03	2.09E-03	3.45E-05	2.09E-04	1.23E-04
161	577380.08	4194264.78	5.29E-03	1.78E-02	1.39E-02	8.25E-04	2.87E-03	2.20E-03	3.62E-05	2.19E-04	1.29E-04
162	577323.75	4194205.95	7.07E-03	2.38E-02	1.86E-02	1.10E-03	3.84E-03	2.93E-03	4.83E-05	2.93E-04	1.72E-04
163	577314.72	4194203.75	7.43E-03	2.50E-02	1.95E-02	1.16E-03	4.03E-03	3.08E-03	5.08E-05	3.08E-04	1.81E-04
164	577305.68	4194201.55	7.61E-03	2.56E-02	2.00E-02	1.19E-03	4.13E-03	3.15E-03	5.20E-05	3.15E-04	1.85E-04
165	577296.65	4194199.34	7.58E-03	2.55E-02	1.99E-02	1.18E-03	4.11E-03	3.14E-03	5.18E-05	3.14E-04	1.84E-04
166	577287.62	4194197.14	7.35E-03	2.48E-02	1.93E-02	1.15E-03	3.99E-03	3.05E-03	5.03E-05	3.05E-04	1.79E-04
167	577356.06	4194213.49	5.13E-03	1.73E-02	1.35E-02	7.99E-04	2.78E-03	2.13E-03	3.51E-05	2.12E-04	1.25E-04
168	577369.99	4194223.53	4.63E-03	1.56E-02	1.22E-02	7.22E-04	2.51E-03	1.92E-03	3.17E-05	1.92E-04	1.13E-04
169	577385.44	4194242.02	4.22E-03	1.42E-02	1.11E-02	6.58E-04	2.29E-03	1.75E-03	2.89E-05	1.75E-04	1.03E-04
170	577388.45	4194258.93	4.42E-03	1.49E-02	1.16E-02	6.88E-04	2.40E-03	1.83E-03	3.02E-05	1.83E-04	1.07E-04
171	577391.46	4194275.84	4.40E-03	1.48E-02	1.16E-02	6.86E-04	2.39E-03	1.83E-03	3.01E-05	1.82E-04	1.07E-04
172	577326.12	4194196.23	5.90E-03	1.98E-02	1.55E-02	9.19E-04	3.20E-03	2.45E-03	4.03E-05	2.44E-04	1.43E-04
173	577317.09	4194194.03	6.15E-03	2.07E-02	1.61E-02	9.58E-04	3.34E-03	2.55E-03	4.20E-05	2.55E-04	1.50E-04
174	577308.05	4194191.83	6.25E-03	2.10E-02	1.64E-02	9.74E-04	3.39E-03	2.59E-03	4.27E-05	2.59E-04	1.52E-04
175	577299.02	4194189.63	6.20E-03	2.09E-02	1.63E-02	9.65E-04	3.36E-03	2.57E-03	4.24E-05	2.57E-04	1.51E-04
176	577289.99	4194187.43	6.02E-03	2.03E-02	1.58E-02	9.38E-04	3.27E-03	2.50E-03	4.12E-05	2.49E-04	1.46E-04
177	577358.1	4194203.54	4.46E-03	1.50E-02	1.17E-02	6.95E-04	2.42E-03	1.85E-03	3.05E-05	1.85E-04	1.08E-04
178	577371.82	4194213.42	4.10E-03	1.38E-02	1.08E-02	6.38E-04	2.22E-03	1.70E-03	2.80E-05	1.70E-04	9.96E-05
179	577385.54	4194223.3	3.67E-03	1.24E-02	9.65E-03	5.72E-04	1.99E-03	1.52E-03	2.51E-05	1.52E-04	8.94E-05
180	577393.88	4194236.57	3.58E-03	1.20E-02	9.40E-03	5.58E-04	1.94E-03	1.48E-03	2.45E-05	1.48E-04	8.71E-05
181	577396.84	4194253.21	3.75E-03	1.26E-02	9.83E-03	5.83E-04	2.03E-03	1.55E-03	2.56E-05	1.55E-04	9.11E-05
182	577399.81	4194269.86	3.78E-03	1.27E-02	9.92E-03	5.88E-04	2.05E-03	1.57E-03	2.58E-05	1.56E-04	9.19E-05

183	577402.77	4194286.5	3.58E-03	1.21E-02	9.41E-03	5.58E-04	1.94E-03	1.49E-03	2.45E-05	1.48E-04	8.72E-05
184	577360.21	4194193.64	3.90E-03	1.31E-02	1.02E-02	6.08E-04	2.12E-03	1.62E-03	2.67E-05	1.62E-04	9.49E-05
185	577373.76	4194203.4	3.63E-03	1.22E-02	9.54E-03	5.66E-04	1.97E-03	1.51E-03	2.48E-05	1.51E-04	8.84E-05
186	577387.31	4194213.16	3.30E-03	1.11E-02	8.68E-03	5.15E-04	1.79E-03	1.37E-03	2.26E-05	1.37E-04	8.04E-05
187	577402.32	4194231.14	3.07E-03	1.03E-02	8.06E-03	4.78E-04	1.67E-03	1.27E-03	2.10E-05	1.27E-04	7.46E-05
188	577405.25	4194247.58	3.22E-03	1.08E-02	8.45E-03	5.01E-04	1.75E-03	1.33E-03	2.20E-05	1.33E-04	7.82E-05
189	577408.18	4194264.02	3.26E-03	1.10E-02	8.56E-03	5.08E-04	1.77E-03	1.35E-03	2.23E-05	1.35E-04	7.93E-05
190	577411.11	4194280.46	3.15E-03	1.06E-02	8.28E-03	4.91E-04	1.71E-03	1.31E-03	2.16E-05	1.31E-04	7.67E-05
191	577386.97	4194201.5	3.02E-03	1.02E-02	7.93E-03	4.71E-04	1.64E-03	1.25E-03	2.07E-05	1.25E-04	7.35E-05
192	577394.42	4194206.86	2.87E-03	9.67E-03	7.54E-03	4.48E-04	1.56E-03	1.19E-03	1.96E-05	1.19E-04	6.99E-05
193	577401.87	4194212.23	2.72E-03	9.17E-03	7.15E-03	4.24E-04	1.48E-03	1.13E-03	1.86E-05	1.13E-04	6.62E-05
194	577410.94	4194226.64	2.67E-03	8.98E-03	7.01E-03	4.16E-04	1.45E-03	1.11E-03	1.83E-05	1.11E-04	6.49E-05
195	577412.55	4194235.68	2.75E-03	9.24E-03	7.21E-03	4.28E-04	1.49E-03	1.14E-03	1.88E-05	1.14E-04	6.68E-05
196	577414.16	4194244.72	2.80E-03	9.43E-03	7.36E-03	4.37E-04	1.52E-03	1.16E-03	1.92E-05	1.16E-04	6.82E-05
197	577415.77	4194253.76	2.83E-03	9.53E-03	7.43E-03	4.41E-04	1.54E-03	1.17E-03	1.94E-05	1.17E-04	6.89E-05
198	577417.38	4194262.81	2.83E-03	9.53E-03	7.44E-03	4.41E-04	1.54E-03	1.17E-03	1.94E-05	1.17E-04	6.89E-05
199	577418.99	4194271.85	2.80E-03	9.42E-03	7.35E-03	4.36E-04	1.52E-03	1.16E-03	1.91E-05	1.16E-04	6.81E-05
200	577420.6	4194280.89	2.73E-03	9.18E-03	7.16E-03	4.25E-04	1.48E-03	1.13E-03	1.86E-05	1.13E-04	6.63E-05
201	577422.21	4194289.93	2.63E-03	8.84E-03	6.90E-03	4.09E-04	1.43E-03	1.09E-03	1.80E-05	1.09E-04	6.39E-05
202	577351.94	4194164.84	3.11E-03	1.05E-02	8.17E-03	4.85E-04	1.69E-03	1.29E-03	2.13E-05	1.29E-04	7.57E-05
203	577403.16	4194201.73	2.49E-03	8.39E-03	6.54E-03	3.88E-04	1.35E-03	1.03E-03	1.70E-05	1.03E-04	6.06E-05
204	577410.47	4194207	2.38E-03	8.00E-03	6.24E-03	3.70E-04	1.29E-03	9.85E-04	1.63E-05	9.84E-05	5.78E-05
205	577419.37	4194221.15	2.33E-03	7.86E-03	6.13E-03	3.64E-04	1.27E-03	9.68E-04	1.60E-05	9.67E-05	5.68E-05
206	577422.53	4194238.91	2.45E-03	8.24E-03	6.43E-03	3.82E-04	1.33E-03	1.02E-03	1.68E-05	1.01E-04	5.96E-05
207	577425.7	4194256.66	2.49E-03	8.38E-03	6.54E-03	3.88E-04	1.35E-03	1.03E-03	1.70E-05	1.03E-04	6.05E-05
208	577428.86	4194274.41	2.43E-03	8.18E-03	6.38E-03	3.79E-04	1.32E-03	1.01E-03	1.66E-05	1.01E-04	5.91E-05
209	577432.02	4194292.17	2.28E-03	7.67E-03	5.98E-03	3.55E-04	1.24E-03	9.45E-04	1.56E-05	9.44E-05	5.54E-05
210	577344.63	4194159.57	3.10E-03	1.04E-02	8.13E-03	4.82E-04	1.68E-03	1.28E-03	2.12E-05	1.28E-04	7.53E-05
211	577335.59	4194157.37	3.19E-03	1.07E-02	8.36E-03	4.96E-04	1.73E-03	1.32E-03	2.18E-05	1.32E-04	7.75E-05
212	577326.56	4194155.17	3.23E-03	1.09E-02	8.48E-03	5.03E-04	1.75E-03	1.34E-03	2.21E-05	1.34E-04	7.86E-05
213	577317.53	4194152.97	3.23E-03	1.09E-02	8.48E-03	5.03E-04	1.75E-03	1.34E-03	2.21E-05	1.34E-04	7.85E-05
214	577308.49	4194150.77	3.19E-03	1.07E-02	8.37E-03	4.97E-04	1.73E-03	1.32E-03	2.18E-05	1.32E-04	7.76E-05
215	577299.46	4194148.56	3.11E-03	1.05E-02	8.17E-03	4.85E-04	1.69E-03	1.29E-03	2.13E-05	1.29E-04	7.57E-05
216	577354.2	4194155.05	2.74E-03	9.23E-03	7.20E-03	4.27E-04	1.49E-03	1.14E-03	1.88E-05	1.14E-04	6.67E-05
217	577368.61	4194165.43	2.70E-03	9.08E-03	7.08E-03	4.20E-04	1.46E-03	1.12E-03	1.84E-05	1.12E-04	6.56E-05
218	577427.81	4194215.69	2.06E-03	6.93E-03	5.40E-03	3.21E-04	1.12E-03	8.53E-04	1.41E-05	8.52E-05	5.01E-05
219	577430.93	4194233.18	2.16E-03	7.26E-03	5.66E-03	3.36E-04	1.17E-03	8.94E-04	1.47E-05	8.93E-05	5.25E-05
220	577434.04	4194250.66	2.20E-03	7.41E-03	5.78E-03	3.43E-04	1.19E-03	9.13E-04	1.51E-05	9.12E-05	5.36E-05
221	577437.16	4194268.15	2.17E-03	7.31E-03	5.70E-03	3.38E-04	1.18E-03	9.00E-04	1.48E-05	8.99E-05	5.28E-05
222	577440.27	4194285.63	2.06E-03	6.95E-03	5.42E-03	3.22E-04	1.12E-03	8.56E-04	1.41E-05	8.55E-05	5.02E-05
223	577337.96	4194147.66	2.79E-03	9.38E-03	7.32E-03	4.34E-04	1.51E-03	1.16E-03	1.91E-05	1.15E-04	6.78E-05
224	577328.93	4194145.45	2.81E-03	9.47E-03	7.39E-03	4.39E-04	1.53E-03	1.17E-03	1.92E-05	1.17E-04	6.85E-05
225	577319.89	4194143.25	2.81E-03	9.45E-03	7.37E-03	4.37E-04	1.52E-03	1.16E-03	1.92E-05	1.16E-04	6.83E-05
226	577310.86	4194141.05	2.77E-03	9.32E-03	7.27E-03	4.31E-04	1.50E-03	1.15E-03	1.89E-05	1.15E-04	6.74E-05
227	577301.83	4194138.85	2.71E-03	9.11E-03	7.11E-03	4.22E-04	1.47E-03	1.12E-03	1.85E-05	1.12E-04	6.59E-05
228	577356.48	4194145.27	2.43E-03	8.18E-03	6.39E-03	3.79E-04	1.32E-03	1.01E-03	1.66E-05	1.01E-04	5.92E-05
229	577370.7	4194155.51	2.41E-03	8.11E-03	6.33E-03	3.76E-04	1.31E-03	1.00E-03	1.65E-05	9.99E-05	5.86E-05
230	577384.93	4194165.76	2.31E-03	7.78E-03	6.07E-03	3.60E-04	1.25E-03	9.58E-04	1.58E-05	9.57E-05	5.62E-05
231	577436.26	4194210.26	1.83E-03	6.14E-03	4.79E-03	2.84E-04	9.91E-04	7.57E-04	1.25E-05	7.56E-05	4.44E-05
232	577439.33	4194227.52	1.91E-03	6.43E-03	5.01E-03	2.98E-04	1.04E-03	7.92E-04	1.31E-05	7.91E-05	4.65E-05
233	577442.41	4194244.78	1.95E-03	6.58E-03	5.13E-03	3.05E-04	1.06E-03	8.10E-04	1.34E-05	8.10E-05	4.75E-05
234	577445.48	4194262.04	1.95E-03	6.55E-03	5.11E-03	3.03E-04	1.06E-03	8.06E-04	1.33E-05	8.06E-05	4.73E-05
235	577448.56	4194279.3	1.87E-03	6.31E-03	4.92E-03	2.92E-04	1.02E-03	7.77E-04	1.28E-05	7.77E-05	4.56E-05
236	577340.33	4194137.94	2.45E-03	8.26E-03	6.44E-03	3.82E-04	1.33E-03	1.02E-03	1.68E-05	1.02E-04	5.97E-05
237	577331.3	4194135.74	2.47E-03	8.32E-03	6.49E-03	3.85E-04	1.34E-03	1.02E-03	1.69E-05	1.02E-04	6.01E-05
238	577322.26	4194133.54	2.46E-03	8.29E-03	6.46E-03	3.84E-04	1.34E-03	1.02E-03	1.68E-05	1.02E-04	5.99E-05
239	577313.23	4194131.33	2.43E-03	8.17E-03	6.37E-03	3.78E-04	1.32E-03	1.01E-03	1.66E-05	1.01E-04	5.90E-05
240	577304.19	4194129.13	2.37E-03	7.99E-03	6.24E-03	3.70E-04	1.29E-03	9.84E-04	1.62E-05	9.84E-05	5.78E-05
241	577358.77	4194135.49	2.17E-03	7.29E-03	5.69E-03	3.38E-04	1.18E-03	8.99E-04	1.48E-05	8.98E-05	5.27E-05
242	577372.84	4194145.63	2.16E-03	7.28E-03	5.68E-03	3.37E-04	1.17E-03	8.97E-04	1.48E-05	8.97E-05	5.27E-05
243	577386.91	4194155.76	2.10E-03	7.05E-03	5.50E-03	3.27E-04	1.14E-03	8.69E-04	1.43E-05	8.68E-05	5.10E-05
244	577400.98	4194165.9	1.98E-03	6.66E-03	5.20E-03	3.08E-04	1.07E-03	8.21E-04	1.35E-05	8.20E-05	4.82E-05

245	577415.05	4194176.03	1.85E-03	6.24E-03	4.87E-03	2.89E-04	1.01E-03	7.68E-04	1.27E-05	7.68E-05	4.51E-05
246	577447.75	4194221.91	1.70E-03	5.72E-03	4.46E-03	2.65E-04	9.23E-04	7.05E-04	1.16E-05	7.04E-05	4.14E-05
247	577450.79	4194238.98	1.74E-03	5.87E-03	4.58E-03	2.72E-04	9.46E-04	7.23E-04	1.19E-05	7.23E-05	4.24E-05
248	577453.83	4194256.05	1.75E-03	5.88E-03	4.59E-03	2.72E-04	9.48E-04	7.24E-04	1.20E-05	7.24E-05	4.25E-05
249	577456.87	4194273.12	1.70E-03	5.73E-03	4.47E-03	2.65E-04	9.24E-04	7.06E-04	1.16E-05	7.05E-05	4.14E-05
250	577459.91	4194290.19	1.61E-03	5.43E-03	4.24E-03	2.52E-04	8.76E-04	6.69E-04	1.10E-05	6.69E-05	3.93E-05
251	577342.7	4194128.22	2.17E-03	7.32E-03	5.71E-03	3.39E-04	1.18E-03	9.02E-04	1.49E-05	9.01E-05	5.29E-05
252	577333.66	4194126.02	2.19E-03	7.36E-03	5.74E-03	3.41E-04	1.19E-03	9.06E-04	1.50E-05	9.06E-05	5.32E-05
253	577324.63	4194123.82	2.18E-03	7.32E-03	5.71E-03	3.39E-04	1.18E-03	9.02E-04	1.49E-05	9.01E-05	5.29E-05
254	577315.6	4194121.62	2.15E-03	7.22E-03	5.63E-03	3.34E-04	1.16E-03	8.90E-04	1.47E-05	8.89E-05	5.22E-05
255	577306.56	4194119.42	2.10E-03	7.06E-03	5.51E-03	3.27E-04	1.14E-03	8.70E-04	1.44E-05	8.69E-05	5.10E-05
256	577361.6	4194126.12	1.95E-03	6.55E-03	5.11E-03	3.03E-04	1.06E-03	8.07E-04	1.33E-05	8.06E-05	4.73E-05
257	577369.11	4194131.52	1.96E-03	6.58E-03	5.14E-03	3.05E-04	1.06E-03	8.11E-04	1.34E-05	8.10E-05	4.76E-05
258	577376.61	4194136.93	1.95E-03	6.56E-03	5.12E-03	3.04E-04	1.06E-03	8.08E-04	1.33E-05	8.07E-05	4.74E-05
259	577384.12	4194142.33	1.93E-03	6.49E-03	5.06E-03	3.00E-04	1.05E-03	7.99E-04	1.32E-05	7.99E-05	4.69E-05
260	577391.62	4194147.74	1.89E-03	6.37E-03	4.97E-03	2.95E-04	1.03E-03	7.84E-04	1.29E-05	7.84E-05	4.60E-05
261	577399.12	4194153.14	1.84E-03	6.21E-03	4.84E-03	2.87E-04	1.00E-03	7.65E-04	1.26E-05	7.64E-05	4.49E-05
262	577406.63	4194158.55	1.79E-03	6.02E-03	4.70E-03	2.79E-04	9.71E-04	7.42E-04	1.22E-05	7.41E-05	4.35E-05
263	577414.13	4194163.95	1.73E-03	5.82E-03	4.54E-03	2.70E-04	9.39E-04	7.17E-04	1.18E-05	7.17E-05	4.21E-05
264	577421.64	4194169.36	1.67E-03	5.63E-03	4.39E-03	2.60E-04	9.07E-04	6.93E-04	1.14E-05	6.92E-05	4.07E-05
265	577429.14	4194174.76	1.61E-03	5.43E-03	4.23E-03	2.51E-04	8.75E-04	6.68E-04	1.10E-05	6.68E-05	3.92E-05
266	577436.64	4194180.17	1.55E-03	5.22E-03	4.07E-03	2.42E-04	8.41E-04	6.43E-04	1.06E-05	6.42E-05	3.77E-05
267	577456.52	4194218.29	1.53E-03	5.14E-03	4.01E-03	2.38E-04	8.29E-04	6.34E-04	1.05E-05	6.33E-05	3.72E-05
268	577458.14	4194227.4	1.55E-03	5.23E-03	4.08E-03	2.42E-04	8.43E-04	6.44E-04	1.06E-05	6.43E-05	3.78E-05
269	577459.76	4194236.5	1.57E-03	5.28E-03	4.12E-03	2.44E-04	8.51E-04	6.50E-04	1.07E-05	6.50E-05	3.82E-05
270	577461.38	4194245.61	1.58E-03	5.30E-03	4.14E-03	2.46E-04	8.55E-04	6.53E-04	1.08E-05	6.53E-05	3.83E-05
271	577463	4194254.71	1.57E-03	5.29E-03	4.13E-03	2.45E-04	8.53E-04	6.52E-04	1.07E-05	6.51E-05	3.82E-05
272	577464.62	4194263.82	1.56E-03	5.24E-03	4.09E-03	2.43E-04	8.45E-04	6.46E-04	1.06E-05	6.45E-05	3.79E-05
273	577466.25	4194272.92	1.53E-03	5.15E-03	4.02E-03	2.38E-04	8.31E-04	6.35E-04	1.05E-05	6.34E-05	3.72E-05
274	577467.87	4194282.03	1.49E-03	5.03E-03	3.92E-03	2.33E-04	8.11E-04	6.19E-04	1.02E-05	6.19E-05	3.63E-05
275	577469.49	4194291.13	1.45E-03	4.87E-03	3.80E-03	2.26E-04	7.86E-04	6.00E-04	9.90E-06	6.00E-05	3.52E-05
276	577471.11	4194300.24	1.39E-03	4.69E-03	3.66E-03	2.17E-04	7.56E-04	5.78E-04	9.53E-06	5.77E-05	3.39E-05
277	577354.1	4194120.71	1.91E-03	6.44E-03	5.03E-03	2.98E-04	1.04E-03	7.94E-04	1.31E-05	7.93E-05	4.66E-05
278	577345.07	4194118.51	1.94E-03	6.52E-03	5.09E-03	3.02E-04	1.05E-03	8.04E-04	1.33E-05	8.03E-05	4.71E-05
279	577336.03	4194116.31	1.94E-03	6.55E-03	5.11E-03	3.03E-04	1.06E-03	8.06E-04	1.33E-05	8.06E-05	4.73E-05
280	577327	4194114.11	1.93E-03	6.51E-03	5.08E-03	3.01E-04	1.05E-03	8.02E-04	1.32E-05	8.01E-05	4.70E-05
281	577317.96	4194111.9	1.91E-03	6.42E-03	5.01E-03	2.97E-04	1.04E-03	7.91E-04	1.30E-05	7.90E-05	4.64E-05
282	577308.93	4194109.7	1.87E-03	6.28E-03	4.90E-03	2.91E-04	1.01E-03	7.74E-04	1.28E-05	7.73E-05	4.54E-05
283	577363.87	4194116.33	1.75E-03	5.90E-03	4.60E-03	2.73E-04	9.51E-04	7.27E-04	1.20E-05	7.26E-05	4.26E-05
284	577371.27	4194121.66	1.77E-03	5.95E-03	4.64E-03	2.76E-04	9.60E-04	7.33E-04	1.21E-05	7.33E-05	4.30E-05
285	577378.68	4194126.99	1.77E-03	5.95E-03	4.64E-03	2.75E-04	9.59E-04	7.33E-04	1.21E-05	7.32E-05	4.30E-05
286	577386.08	4194132.33	1.75E-03	5.91E-03	4.61E-03	2.73E-04	9.52E-04	7.27E-04	1.20E-05	7.27E-05	4.27E-05
287	577393.49	4194137.66	1.73E-03	5.82E-03	4.54E-03	2.69E-04	9.38E-04	7.17E-04	1.18E-05	7.16E-05	4.21E-05
288	577400.89	4194142.99	1.69E-03	5.70E-03	4.45E-03	2.64E-04	9.19E-04	7.02E-04	1.16E-05	7.01E-05	4.12E-05
289	577408.29	4194148.33	1.65E-03	5.55E-03	4.33E-03	2.57E-04	8.95E-04	6.84E-04	1.13E-05	6.83E-05	4.01E-05
290	577415.7	4194153.66	1.60E-03	5.39E-03	4.20E-03	2.49E-04	8.68E-04	6.64E-04	1.09E-05	6.63E-05	3.89E-05
291	577423.1	4194158.99	1.55E-03	5.22E-03	4.07E-03	2.42E-04	8.41E-04	6.43E-04	1.06E-05	6.42E-05	3.77E-05
292	577430.5	4194164.32	1.50E-03	5.05E-03	3.94E-03	2.34E-04	8.14E-04	6.22E-04	1.03E-05	6.21E-05	3.65E-05
293	577437.91	4194169.66	1.45E-03	4.87E-03	3.80E-03	2.25E-04	7.85E-04	6.00E-04	9.89E-06	5.99E-05	3.52E-05
294	577445.31	4194174.99	1.39E-03	4.69E-03	3.66E-03	2.17E-04	7.56E-04	5.78E-04	9.53E-06	5.77E-05	3.39E-05
295	577452.71	4194180.32	1.34E-03	4.51E-03	3.52E-03	2.09E-04	7.27E-04	5.55E-04	9.16E-06	5.55E-05	3.26E-05
296	577464.92	4194212.6	1.38E-03	4.63E-03	3.61E-03	2.14E-04	7.47E-04	5.70E-04	9.41E-06	5.70E-05	3.35E-05
297	577466.52	4194221.59	1.40E-03	4.71E-03	3.67E-03	2.18E-04	7.59E-04	5.80E-04	9.56E-06	5.79E-05	3.40E-05
298	577468.12	4194230.57	1.41E-03	4.76E-03	3.72E-03	2.20E-04	7.68E-04	5.87E-04	9.68E-06	5.86E-05	3.44E-05
299	577469.72	4194239.55	1.42E-03	4.79E-03	3.74E-03	2.22E-04	7.73E-04	5.91E-04	9.74E-06	5.90E-05	3.46E-05
300	577471.32	4194248.53	1.43E-03	4.80E-03	3.74E-03	2.22E-04	7.74E-04	5.91E-04	9.75E-06	5.91E-05	3.47E-05
301	577472.92	4194257.52	1.42E-03	4.77E-03	3.72E-03	2.21E-04	7.69E-04	5.88E-04	9.70E-06	5.87E-05	3.45E-05
302	577474.51	4194266.5	1.40E-03	4.72E-03	3.68E-03	2.18E-04	7.60E-04	5.81E-04	9.58E-06	5.80E-05	3.41E-05
303	577476.11	4194275.48	1.38E-03	4.63E-03	3.61E-03	2.14E-04	7.46E-04	5.70E-04	9.41E-06	5.70E-05	3.35E-05
304	577477.71	4194284.47	1.34E-03	4.51E-03	3.52E-03	2.09E-04	7.28E-04	5.56E-04	9.17E-06	5.56E-05	3.26E-05
305	577479.31	4194293.45	1.30E-03	4.37E-03	3.41E-03	2.02E-04	7.05E-04	5.39E-04	8.89E-06	5.38E-05	3.16E-05
306	577480.91	4194302.43	1.25E-03	4.21E-03	3.29E-03	1.95E-04	6.79E-04	5.19E-04	8.56E-06	5.18E-05	3.04E-05

307	577356.47	4194111	1.72E-03	5.79E-03	4.52E-03	2.68E-04	9.34E-04	7.13E-04	1.18E-05	7.13E-05	4.19E-05
308	577347.43	4194108.79	1.74E-03	5.84E-03	4.56E-03	2.71E-04	9.42E-04	7.20E-04	1.19E-05	7.19E-05	4.22E-05
309	577338.4	4194106.59	1.74E-03	5.85E-03	4.56E-03	2.71E-04	9.43E-04	7.21E-04	1.19E-05	7.20E-05	4.23E-05
310	577329.37	4194104.39	1.73E-03	5.81E-03	4.54E-03	2.69E-04	9.37E-04	7.16E-04	1.18E-05	7.16E-05	4.20E-05
311	577320.33	4194102.19	1.70E-03	5.73E-03	4.47E-03	2.65E-04	9.24E-04	7.06E-04	1.17E-05	7.06E-05	4.14E-05
312	577311.3	4194099.99	1.67E-03	5.61E-03	4.38E-03	2.60E-04	9.05E-04	6.91E-04	1.14E-05	6.91E-05	4.06E-05
313	577366.15	4194106.55	1.59E-03	5.34E-03	4.16E-03	2.47E-04	8.61E-04	6.58E-04	1.08E-05	6.57E-05	3.86E-05
314	577373.47	4194111.82	1.60E-03	5.40E-03	4.21E-03	2.50E-04	8.71E-04	6.65E-04	1.10E-05	6.65E-05	3.90E-05
315	577380.79	4194117.09	1.61E-03	5.41E-03	4.22E-03	2.51E-04	8.73E-04	6.67E-04	1.10E-05	6.66E-05	3.91E-05
316	577388.1	4194122.36	1.60E-03	5.39E-03	4.20E-03	2.49E-04	8.69E-04	6.64E-04	1.09E-05	6.63E-05	3.89E-05
317	577395.42	4194127.63	1.58E-03	5.33E-03	4.16E-03	2.47E-04	8.59E-04	6.56E-04	1.08E-05	6.56E-05	3.85E-05
318	577402.73	4194132.9	1.56E-03	5.24E-03	4.09E-03	2.43E-04	8.45E-04	6.45E-04	1.06E-05	6.45E-05	3.79E-05
319	577410.05	4194138.17	1.52E-03	5.12E-03	4.00E-03	2.37E-04	8.26E-04	6.31E-04	1.04E-05	6.30E-05	3.70E-05
320	577417.37	4194143.44	1.48E-03	4.99E-03	3.89E-03	2.31E-04	8.04E-04	6.14E-04	1.01E-05	6.14E-05	3.60E-05
321	577424.68	4194148.71	1.44E-03	4.84E-03	3.78E-03	2.24E-04	7.81E-04	5.97E-04	9.84E-06	5.96E-05	3.50E-05
322	577432	4194153.98	1.40E-03	4.70E-03	3.66E-03	2.17E-04	7.57E-04	5.79E-04	9.54E-06	5.78E-05	3.39E-05
323	577439.32	4194159.25	1.35E-03	4.54E-03	3.55E-03	2.10E-04	7.33E-04	5.60E-04	9.23E-06	5.59E-05	3.28E-05
324	577446.63	4194164.52	1.30E-03	4.39E-03	3.43E-03	2.03E-04	7.08E-04	5.41E-04	8.92E-06	5.40E-05	3.17E-05
325	577453.95	4194169.79	1.26E-03	4.23E-03	3.30E-03	1.96E-04	6.83E-04	5.22E-04	8.60E-06	5.21E-05	3.06E-05
326	577461.26	4194175.06	1.21E-03	4.08E-03	3.18E-03	1.89E-04	6.58E-04	5.02E-04	8.29E-06	5.02E-05	2.95E-05
327	577476.49	4194224.72	1.28E-03	4.32E-03	3.37E-03	2.00E-04	6.96E-04	5.32E-04	8.77E-06	5.31E-05	3.12E-05
328	577479.65	4194242.47	1.30E-03	4.36E-03	3.41E-03	2.02E-04	7.04E-04	5.38E-04	8.87E-06	5.37E-05	3.15E-05
329	577482.81	4194260.23	1.28E-03	4.32E-03	3.37E-03	2.00E-04	6.97E-04	5.32E-04	8.78E-06	5.32E-05	3.12E-05
330	577485.97	4194277.98	1.24E-03	4.18E-03	3.26E-03	1.93E-04	6.74E-04	5.15E-04	8.49E-06	5.14E-05	3.02E-05
331	577489.13	4194295.73	1.17E-03	3.94E-03	3.08E-03	1.83E-04	6.36E-04	4.86E-04	8.01E-06	4.85E-05	2.85E-05
332	577358.84	4194101.28	1.55E-03	5.23E-03	4.08E-03	2.42E-04	8.43E-04	6.44E-04	1.06E-05	6.44E-05	3.78E-05
333	577349.8	4194099.08	1.56E-03	5.27E-03	4.11E-03	2.44E-04	8.49E-04	6.49E-04	1.07E-05	6.48E-05	3.81E-05
334	577340.77	4194096.88	1.56E-03	5.26E-03	4.11E-03	2.44E-04	8.49E-04	6.48E-04	1.07E-05	6.48E-05	3.80E-05
335	577331.73	4194094.67	1.55E-03	5.22E-03	4.07E-03	2.42E-04	8.42E-04	6.43E-04	1.06E-05	6.43E-05	3.77E-05
336	577322.7	4194092.47	1.53E-03	5.14E-03	4.01E-03	2.38E-04	8.29E-04	6.34E-04	1.05E-05	6.33E-05	3.72E-05
337	577313.67	4194090.27	1.50E-03	5.04E-03	3.93E-03	2.33E-04	8.12E-04	6.20E-04	1.02E-05	6.20E-05	3.64E-05
338	577368.44	4194096.78	1.44E-03	4.84E-03	3.78E-03	2.24E-04	7.81E-04	5.96E-04	9.84E-06	5.96E-05	3.50E-05
339	577382.92	4194107.21	1.47E-03	4.94E-03	3.85E-03	2.29E-04	7.96E-04	6.08E-04	1.00E-05	6.08E-05	3.57E-05
340	577397.4	4194117.64	1.45E-03	4.88E-03	3.81E-03	2.26E-04	7.88E-04	6.02E-04	9.93E-06	6.01E-05	3.53E-05
341	577411.89	4194128.07	1.40E-03	4.73E-03	3.69E-03	2.19E-04	7.62E-04	5.82E-04	9.60E-06	5.82E-05	3.42E-05
342	577426.37	4194138.5	1.34E-03	4.50E-03	3.51E-03	2.08E-04	7.25E-04	5.54E-04	9.14E-06	5.54E-05	3.25E-05
343	577440.85	4194148.93	1.26E-03	4.24E-03	3.31E-03	1.96E-04	6.84E-04	5.23E-04	8.62E-06	5.22E-05	3.07E-05
344	577455.33	4194159.36	1.18E-03	3.98E-03	3.10E-03	1.84E-04	6.41E-04	4.90E-04	8.08E-06	4.89E-05	2.87E-05
345	577469.81	4194169.79	1.10E-03	3.71E-03	2.89E-03	1.72E-04	5.98E-04	4.57E-04	7.54E-06	4.57E-05	2.68E-05
346	577478.61	4194183.79	1.09E-03	3.66E-03	2.86E-03	1.70E-04	5.91E-04	4.51E-04	7.44E-06	4.51E-05	2.65E-05
347	577486.43	4194227.72	1.18E-03	3.96E-03	3.09E-03	1.83E-04	6.39E-04	4.88E-04	8.05E-06	4.88E-05	2.86E-05
348	577489.56	4194245.28	1.18E-03	3.98E-03	3.11E-03	1.84E-04	6.42E-04	4.91E-04	8.09E-06	4.90E-05	2.88E-05
349	577492.69	4194262.85	1.17E-03	3.93E-03	3.06E-03	1.82E-04	6.33E-04	4.84E-04	7.98E-06	4.83E-05	2.84E-05
350	577494.26	4194271.64	1.15E-03	3.86E-03	3.02E-03	1.79E-04	6.23E-04	4.76E-04	7.85E-06	4.76E-05	2.79E-05
351	577497.39	4194289.21	1.10E-03	3.69E-03	2.88E-03	1.71E-04	5.94E-04	4.54E-04	7.49E-06	4.54E-05	2.66E-05
352	577500.52	4194306.78	1.02E-03	3.45E-03	2.69E-03	1.60E-04	5.56E-04	4.25E-04	7.01E-06	4.24E-05	2.49E-05
353	577352.17	4194089.36	1.42E-03	4.77E-03	3.72E-03	2.21E-04	7.68E-04	5.87E-04	9.68E-06	5.86E-05	3.44E-05
354	577343.14	4194087.16	1.41E-03	4.76E-03	3.71E-03	2.20E-04	7.67E-04	5.86E-04	9.66E-06	5.85E-05	3.44E-05
355	577334.1	4194084.96	1.40E-03	4.71E-03	3.68E-03	2.18E-04	7.60E-04	5.80E-04	9.57E-06	5.80E-05	3.41E-05
356	577325.07	4194082.76	1.38E-03	4.64E-03	3.62E-03	2.15E-04	7.48E-04	5.71E-04	9.42E-06	5.71E-05	3.35E-05
357	577316.03	4194080.55	1.35E-03	4.54E-03	3.54E-03	2.10E-04	7.32E-04	5.59E-04	9.22E-06	5.59E-05	3.28E-05
358	577370.75	4194087.02	1.31E-03	4.41E-03	3.44E-03	2.04E-04	7.10E-04	5.43E-04	8.95E-06	5.42E-05	3.18E-05
359	577385.09	4194097.35	1.34E-03	4.51E-03	3.52E-03	2.09E-04	7.27E-04	5.56E-04	9.17E-06	5.55E-05	3.26E-05
360	577399.44	4194107.68	1.33E-03	4.49E-03	3.50E-03	2.08E-04	7.24E-04	5.53E-04	9.12E-06	5.52E-05	3.24E-05
361	577413.78	4194118.02	1.30E-03	4.37E-03	3.41E-03	2.02E-04	7.04E-04	5.38E-04	8.87E-06	5.38E-05	3.16E-05
362	577428.13	4194128.35	1.24E-03	4.18E-03	3.26E-03	1.94E-04	6.74E-04	5.15E-04	8.50E-06	5.15E-05	3.02E-05
363	577442.47	4194138.68	1.18E-03	3.97E-03	3.09E-03	1.84E-04	6.39E-04	4.89E-04	8.06E-06	4.88E-05	2.87E-05
364	577456.82	4194149.02	1.11E-03	3.74E-03	2.91E-03	1.73E-04	6.02E-04	4.60E-04	7.59E-06	4.60E-05	2.70E-05
365	577471.17	4194159.35	1.04E-03	3.50E-03	2.73E-03	1.62E-04	5.65E-04	4.32E-04	7.12E-06	4.31E-05	2.53E-05
366	577487.06	4194178.39	9.95E-04	3.35E-03	2.61E-03	1.55E-04	5.40E-04	4.12E-04	6.80E-06	4.12E-05	2.42E-05
367	577496.36	4194230.6	1.08E-03	3.64E-03	2.84E-03	1.69E-04	5.87E-04	4.49E-04	7.40E-06	4.48E-05	2.63E-05
368	577499.46	4194248.01	1.08E-03	3.64E-03	2.84E-03	1.69E-04	5.87E-04	4.49E-04	7.40E-06	4.48E-05	2.63E-05

369	577502.56	4194265.42	1.06E-03	3.58E-03	2.79E-03	1.66E-04	5.77E-04	4.41E-04	7.27E-06	4.40E-05	2.59E-05
370	577505.66	4194282.82	1.02E-03	3.44E-03	2.69E-03	1.59E-04	5.55E-04	4.24E-04	7.00E-06	4.24E-05	2.49E-05
371	577508.76	4194300.23	9.67E-04	3.25E-03	2.54E-03	1.51E-04	5.25E-04	4.01E-04	6.61E-06	4.00E-05	2.35E-05
372	577354.54	4194079.65	1.29E-03	4.33E-03	3.38E-03	2.00E-04	6.98E-04	5.33E-04	8.79E-06	5.33E-05	3.13E-05
373	577345.5	4194077.44	1.28E-03	4.31E-03	3.37E-03	2.00E-04	6.96E-04	5.31E-04	8.77E-06	5.31E-05	3.12E-05
374	577336.47	4194075.24	1.27E-03	4.27E-03	3.33E-03	1.98E-04	6.88E-04	5.26E-04	8.68E-06	5.26E-05	3.09E-05
375	577327.44	4194073.04	1.25E-03	4.20E-03	3.28E-03	1.94E-04	6.77E-04	5.18E-04	8.54E-06	5.17E-05	3.04E-05
376	577318.4	4194070.84	1.22E-03	4.12E-03	3.21E-03	1.91E-04	6.64E-04	5.07E-04	8.36E-06	5.07E-05	2.97E-05
377	577373.47	4194077.56	1.20E-03	4.03E-03	3.14E-03	1.86E-04	6.49E-04	4.96E-04	8.18E-06	4.96E-05	2.91E-05
378	577381	4194082.98	1.22E-03	4.10E-03	3.20E-03	1.90E-04	6.61E-04	5.05E-04	8.33E-06	5.04E-05	2.96E-05
379	577388.54	4194088.41	1.23E-03	4.14E-03	3.23E-03	1.92E-04	6.67E-04	5.10E-04	8.41E-06	5.09E-05	2.99E-05
380	577396.07	4194093.83	1.23E-03	4.15E-03	3.24E-03	1.92E-04	6.69E-04	5.11E-04	8.43E-06	5.10E-05	3.00E-05
381	577403.6	4194099.26	1.23E-03	4.13E-03	3.22E-03	1.91E-04	6.65E-04	5.08E-04	8.39E-06	5.08E-05	2.98E-05
382	577411.13	4194104.68	1.21E-03	4.08E-03	3.18E-03	1.89E-04	6.58E-04	5.03E-04	8.29E-06	5.02E-05	2.95E-05
383	577418.66	4194110.11	1.19E-03	4.02E-03	3.13E-03	1.86E-04	6.47E-04	4.95E-04	8.16E-06	4.94E-05	2.90E-05
384	577426.19	4194115.53	1.17E-03	3.94E-03	3.07E-03	1.82E-04	6.35E-04	4.85E-04	8.00E-06	4.84E-05	2.85E-05
385	577433.72	4194120.96	1.14E-03	3.85E-03	3.00E-03	1.78E-04	6.20E-04	4.74E-04	7.82E-06	4.73E-05	2.78E-05
386	577441.26	4194126.38	1.11E-03	3.75E-03	2.92E-03	1.74E-04	6.04E-04	4.62E-04	7.62E-06	4.61E-05	2.71E-05
387	577448.79	4194131.81	1.08E-03	3.65E-03	2.84E-03	1.69E-04	5.88E-04	4.49E-04	7.41E-06	4.49E-05	2.64E-05
388	577456.32	4194137.23	1.05E-03	3.54E-03	2.76E-03	1.64E-04	5.71E-04	4.36E-04	7.19E-06	4.36E-05	2.56E-05
389	577463.85	4194142.66	1.02E-03	3.43E-03	2.68E-03	1.59E-04	5.53E-04	4.23E-04	6.97E-06	4.22E-05	2.48E-05
390	577471.38	4194148.08	9.89E-04	3.33E-03	2.60E-03	1.54E-04	5.37E-04	4.10E-04	6.76E-06	4.10E-05	2.41E-05
391	577478.91	4194153.51	9.57E-04	3.22E-03	2.51E-03	1.49E-04	5.19E-04	3.97E-04	6.55E-06	3.97E-05	2.33E-05
392	577486.44	4194158.93	9.26E-04	3.12E-03	2.43E-03	1.44E-04	5.02E-04	3.84E-04	6.33E-06	3.83E-05	2.25E-05
393	577495.6	4194173.5	9.14E-04	3.07E-03	2.40E-03	1.42E-04	4.96E-04	3.79E-04	6.25E-06	3.78E-05	2.22E-05
394	577497.23	4194182.64	9.32E-04	3.14E-03	2.45E-03	1.45E-04	5.06E-04	3.87E-04	6.38E-06	3.86E-05	2.27E-05
395	577498.86	4194191.77	9.50E-04	3.20E-03	2.49E-03	1.48E-04	5.15E-04	3.94E-04	6.50E-06	3.93E-05	2.31E-05
396	577503.74	4194219.19	9.88E-04	3.33E-03	2.60E-03	1.54E-04	5.36E-04	4.10E-04	6.76E-06	4.09E-05	2.40E-05
397	577505.37	4194228.33	9.95E-04	3.35E-03	2.61E-03	1.55E-04	5.40E-04	4.12E-04	6.80E-06	4.12E-05	2.42E-05
398	577507	4194237.47	9.97E-04	3.36E-03	2.62E-03	1.55E-04	5.41E-04	4.14E-04	6.82E-06	4.13E-05	2.43E-05
399	577508.62	4194246.6	9.95E-04	3.35E-03	2.61E-03	1.55E-04	5.40E-04	4.13E-04	6.81E-06	4.12E-05	2.42E-05
400	577510.25	4194255.74	9.88E-04	3.33E-03	2.60E-03	1.54E-04	5.36E-04	4.10E-04	6.76E-06	4.09E-05	2.40E-05
401	577511.88	4194264.88	9.77E-04	3.29E-03	2.56E-03	1.52E-04	5.30E-04	4.05E-04	6.68E-06	4.05E-05	2.38E-05
402	577513.51	4194274.02	9.60E-04	3.23E-03	2.52E-03	1.50E-04	5.21E-04	3.98E-04	6.57E-06	3.98E-05	2.34E-05
403	577515.13	4194283.16	9.39E-04	3.16E-03	2.47E-03	1.46E-04	5.10E-04	3.89E-04	6.42E-06	3.89E-05	2.28E-05
404	577516.76	4194292.29	9.15E-04	3.08E-03	2.40E-03	1.42E-04	4.96E-04	3.79E-04	6.25E-06	3.79E-05	2.22E-05
405	577518.39	4194301.43	8.86E-04	2.98E-03	2.33E-03	1.38E-04	4.81E-04	3.68E-04	6.06E-06	3.67E-05	2.16E-05
406	577520.02	4194310.57	8.55E-04	2.88E-03	2.25E-03	1.33E-04	4.64E-04	3.55E-04	5.85E-06	3.54E-05	2.08E-05
407	577365.94	4194072.13	1.17E-03	3.93E-03	3.07E-03	1.82E-04	6.34E-04	4.85E-04	8.00E-06	4.84E-05	2.84E-05
408	577356.91	4194069.93	1.17E-03	3.94E-03	3.08E-03	1.82E-04	6.36E-04	4.86E-04	8.01E-06	4.85E-05	2.85E-05
409	577347.87	4194067.73	1.17E-03	3.92E-03	3.06E-03	1.82E-04	6.33E-04	4.83E-04	7.97E-06	4.83E-05	2.84E-05
410	577338.84	4194065.53	1.15E-03	3.88E-03	3.03E-03	1.80E-04	6.26E-04	4.78E-04	7.89E-06	4.78E-05	2.81E-05
411	577329.8	4194063.33	1.14E-03	3.82E-03	2.98E-03	1.77E-04	6.16E-04	4.71E-04	7.76E-06	4.70E-05	2.76E-05
412	577320.77	4194061.12	1.11E-03	3.75E-03	2.92E-03	1.73E-04	6.04E-04	4.62E-04	7.61E-06	4.61E-05	2.71E-05
413	577375.76	4194067.79	1.10E-03	3.69E-03	2.88E-03	1.71E-04	5.95E-04	4.55E-04	7.50E-06	4.54E-05	2.67E-05
414	577383.21	4194073.15	1.12E-03	3.76E-03	2.93E-03	1.74E-04	6.06E-04	4.63E-04	7.64E-06	4.63E-05	2.72E-05
415	577390.66	4194078.52	1.13E-03	3.80E-03	2.97E-03	1.76E-04	6.13E-04	4.69E-04	7.73E-06	4.68E-05	2.75E-05
416	577398.12	4194083.89	1.14E-03	3.82E-03	2.98E-03	1.77E-04	6.16E-04	4.71E-04	7.77E-06	4.70E-05	2.76E-05
417	577405.57	4194089.26	1.13E-03	3.81E-03	2.98E-03	1.77E-04	6.15E-04	4.70E-04	7.75E-06	4.70E-05	2.76E-05
418	577413.02	4194094.62	1.12E-03	3.78E-03	2.95E-03	1.75E-04	6.10E-04	4.66E-04	7.69E-06	4.66E-05	2.73E-05
419	577420.47	4194099.99	1.11E-03	3.73E-03	2.91E-03	1.73E-04	6.02E-04	4.60E-04	7.58E-06	4.59E-05	2.70E-05
420	577427.92	4194105.36	1.09E-03	3.67E-03	2.86E-03	1.70E-04	5.91E-04	4.52E-04	7.45E-06	4.51E-05	2.65E-05
421	577435.37	4194110.73	1.07E-03	3.59E-03	2.80E-03	1.66E-04	5.79E-04	4.42E-04	7.30E-06	4.42E-05	2.60E-05
422	577442.83	4194116.09	1.04E-03	3.51E-03	2.74E-03	1.62E-04	5.66E-04	4.32E-04	7.13E-06	4.32E-05	2.54E-05
423	577450.28	4194121.46	1.02E-03	3.42E-03	2.67E-03	1.58E-04	5.52E-04	4.21E-04	6.95E-06	4.21E-05	2.47E-05
424	577457.73	4194126.83	9.89E-04	3.33E-03	2.60E-03	1.54E-04	5.37E-04	4.10E-04	6.77E-06	4.10E-05	2.41E-05
425	577465.18	4194132.2	9.62E-04	3.24E-03	2.53E-03	1.50E-04	5.22E-04	3.99E-04	6.58E-06	3.98E-05	2.34E-05
426	577472.63	4194137.57	9.35E-04	3.15E-03	2.45E-03	1.46E-04	5.07E-04	3.88E-04	6.39E-06	3.87E-05	2.27E-05
427	577480.09	4194142.93	9.07E-04	3.05E-03	2.38E-03	1.41E-04	4.92E-04	3.76E-04	6.20E-06	3.76E-05	2.21E-05
428	577487.54	4194148.3	8.79E-04	2.96E-03	2.31E-03	1.37E-04	4.77E-04	3.65E-04	6.01E-06	3.64E-05	2.14E-05
429	577494.99	4194153.67	8.51E-04	2.87E-03	2.24E-03	1.33E-04	4.62E-04	3.53E-04	5.82E-06	3.53E-05	2.07E-05
430	577504.05	4194168.08	8.41E-04	2.83E-03	2.21E-03	1.31E-04	4.56E-04	3.49E-04	5.75E-06	3.48E-05	2.05E-05

431	577505.66	4194177.12	8.57E-04	2.89E-03	2.25E-03	1.34E-04	4.65E-04	3.55E-04	5.86E-06	3.55E-05	2.09E-05
432	577507.27	4194186.16	8.73E-04	2.94E-03	2.29E-03	1.36E-04	4.74E-04	3.62E-04	5.97E-06	3.62E-05	2.12E-05
433	577513.71	4194222.33	9.16E-04	3.08E-03	2.40E-03	1.43E-04	4.97E-04	3.80E-04	6.26E-06	3.79E-05	2.23E-05
434	577515.32	4194231.37	9.19E-04	3.09E-03	2.41E-03	1.43E-04	4.99E-04	3.81E-04	6.29E-06	3.81E-05	2.24E-05
435	577516.93	4194240.41	9.19E-04	3.09E-03	2.41E-03	1.43E-04	4.99E-04	3.81E-04	6.29E-06	3.81E-05	2.24E-05
436	577518.54	4194249.45	9.16E-04	3.08E-03	2.40E-03	1.43E-04	4.97E-04	3.80E-04	6.26E-06	3.79E-05	2.23E-05
437	577520.16	4194258.49	9.08E-04	3.05E-03	2.38E-03	1.41E-04	4.92E-04	3.76E-04	6.21E-06	3.76E-05	2.21E-05
438	577521.77	4194267.53	8.96E-04	3.01E-03	2.35E-03	1.40E-04	4.86E-04	3.71E-04	6.12E-06	3.71E-05	2.18E-05
439	577523.38	4194276.58	8.80E-04	2.96E-03	2.31E-03	1.37E-04	4.77E-04	3.65E-04	6.02E-06	3.64E-05	2.14E-05
440	577524.99	4194285.62	8.60E-04	2.90E-03	2.26E-03	1.34E-04	4.67E-04	3.57E-04	5.88E-06	3.56E-05	2.09E-05
441	577526.6	4194294.66	8.38E-04	2.82E-03	2.20E-03	1.31E-04	4.55E-04	3.47E-04	5.73E-06	3.47E-05	2.04E-05
442	577528.21	4194303.7	8.12E-04	2.73E-03	2.13E-03	1.26E-04	4.40E-04	3.37E-04	5.55E-06	3.36E-05	1.97E-05
443	577368.31	4194062.42	1.07E-03	3.60E-03	2.81E-03	1.67E-04	5.81E-04	4.44E-04	7.32E-06	4.44E-05	2.61E-05
444	577359.27	4194060.22	1.07E-03	3.60E-03	2.81E-03	1.67E-04	5.81E-04	4.44E-04	7.32E-06	4.44E-05	2.60E-05
445	577350.24	4194058.01	1.06E-03	3.58E-03	2.79E-03	1.66E-04	5.77E-04	4.41E-04	7.28E-06	4.41E-05	2.59E-05
446	577341.21	4194055.81	1.05E-03	3.54E-03	2.76E-03	1.64E-04	5.71E-04	4.36E-04	7.20E-06	4.36E-05	2.56E-05
447	577332.17	4194053.61	1.04E-03	3.49E-03	2.72E-03	1.61E-04	5.62E-04	4.30E-04	7.09E-06	4.29E-05	2.52E-05
448	577323.14	4194051.41	1.02E-03	3.42E-03	2.67E-03	1.58E-04	5.52E-04	4.22E-04	6.95E-06	4.21E-05	2.47E-05
449	577378.06	4194058.02	1.01E-03	3.39E-03	2.65E-03	1.57E-04	5.47E-04	4.18E-04	6.90E-06	4.18E-05	2.45E-05
450	577385.44	4194063.33	1.03E-03	3.46E-03	2.70E-03	1.60E-04	5.58E-04	4.26E-04	7.03E-06	4.26E-05	2.50E-05
451	577392.82	4194068.65	1.04E-03	3.50E-03	2.73E-03	1.62E-04	5.65E-04	4.32E-04	7.12E-06	4.31E-05	2.53E-05
452	577400.2	4194073.97	1.05E-03	3.53E-03	2.75E-03	1.63E-04	5.69E-04	4.35E-04	7.17E-06	4.34E-05	2.55E-05
453	577407.58	4194079.28	1.05E-03	3.53E-03	2.76E-03	1.63E-04	5.69E-04	4.35E-04	7.18E-06	4.35E-05	2.55E-05
454	577414.96	4194084.6	1.04E-03	3.51E-03	2.74E-03	1.63E-04	5.66E-04	4.33E-04	7.14E-06	4.32E-05	2.54E-05
455	577422.34	4194089.92	1.03E-03	3.47E-03	2.71E-03	1.61E-04	5.60E-04	4.28E-04	7.06E-06	4.28E-05	2.51E-05
456	577429.72	4194095.23	1.02E-03	3.42E-03	2.67E-03	1.58E-04	5.52E-04	4.21E-04	6.95E-06	4.21E-05	2.47E-05
457	577437.1	4194100.55	9.98E-04	3.36E-03	2.62E-03	1.55E-04	5.41E-04	4.14E-04	6.82E-06	4.13E-05	2.43E-05
458	577444.48	4194105.87	9.77E-04	3.29E-03	2.56E-03	1.52E-04	5.30E-04	4.05E-04	6.68E-06	4.05E-05	2.38E-05
459	577451.86	4194111.18	9.54E-04	3.21E-03	2.51E-03	1.49E-04	5.18E-04	3.96E-04	6.53E-06	3.95E-05	2.32E-05
460	577459.24	4194116.5	9.31E-04	3.13E-03	2.45E-03	1.45E-04	5.05E-04	3.86E-04	6.37E-06	3.86E-05	2.27E-05
461	577466.62	4194121.81	9.08E-04	3.05E-03	2.38E-03	1.41E-04	4.92E-04	3.76E-04	6.21E-06	3.76E-05	2.21E-05
462	577474	4194127.13	8.84E-04	2.97E-03	2.32E-03	1.38E-04	4.80E-04	3.66E-04	6.04E-06	3.66E-05	2.15E-05
463	577481.38	4194132.45	8.60E-04	2.89E-03	2.26E-03	1.34E-04	4.67E-04	3.56E-04	5.88E-06	3.56E-05	2.09E-05
464	577488.76	4194137.76	8.35E-04	2.81E-03	2.19E-03	1.30E-04	4.53E-04	3.46E-04	5.71E-06	3.46E-05	2.03E-05
465	577496.15	4194143.08	8.10E-04	2.73E-03	2.13E-03	1.26E-04	4.40E-04	3.36E-04	5.54E-06	3.36E-05	1.97E-05
466	577503.53	4194148.4	7.85E-04	2.64E-03	2.06E-03	1.22E-04	4.26E-04	3.25E-04	5.37E-06	3.25E-05	1.91E-05
467	577512.5	4194162.67	7.76E-04	2.61E-03	2.04E-03	1.21E-04	4.21E-04	3.22E-04	5.31E-06	3.21E-05	1.89E-05
468	577515.69	4194180.58	8.04E-04	2.71E-03	2.11E-03	1.25E-04	4.36E-04	3.33E-04	5.50E-06	3.33E-05	1.96E-05
469	577517.29	4194189.53	8.17E-04	2.75E-03	2.15E-03	1.27E-04	4.43E-04	3.39E-04	5.59E-06	3.38E-05	1.99E-05
470	577525.26	4194234.31	8.51E-04	2.86E-03	2.23E-03	1.33E-04	4.62E-04	3.53E-04	5.82E-06	3.53E-05	2.07E-05
471	577526.86	4194243.26	8.50E-04	2.86E-03	2.23E-03	1.32E-04	4.61E-04	3.52E-04	5.81E-06	3.52E-05	2.07E-05
472	577528.45	4194252.22	8.46E-04	2.85E-03	2.22E-03	1.32E-04	4.59E-04	3.51E-04	5.78E-06	3.50E-05	2.06E-05
473	577530.05	4194261.17	8.37E-04	2.82E-03	2.20E-03	1.30E-04	4.54E-04	3.47E-04	5.73E-06	3.47E-05	2.04E-05
474	577531.64	4194270.13	8.25E-04	2.78E-03	2.17E-03	1.29E-04	4.48E-04	3.42E-04	5.64E-06	3.42E-05	2.01E-05
475	577534.83	4194288.04	7.90E-04	2.66E-03	2.07E-03	1.23E-04	4.29E-04	3.28E-04	5.40E-06	3.27E-05	1.92E-05
476	577536.43	4194296.99	7.68E-04	2.58E-03	2.02E-03	1.20E-04	4.17E-04	3.18E-04	5.25E-06	3.18E-05	1.87E-05
477	577538.02	4194305.95	7.42E-04	2.50E-03	1.95E-03	1.16E-04	4.03E-04	3.08E-04	5.08E-06	3.07E-05	1.81E-05
478	577539.62	4194314.9	7.14E-04	2.40E-03	1.88E-03	1.11E-04	3.88E-04	2.96E-04	4.88E-06	2.96E-05	1.74E-05
479	577370.68	4194052.7	9.84E-04	3.31E-03	2.58E-03	1.53E-04	5.34E-04	4.08E-04	6.73E-06	4.08E-05	2.39E-05
480	577361.64	4194050.5	9.82E-04	3.31E-03	2.58E-03	1.53E-04	5.33E-04	4.07E-04	6.72E-06	4.07E-05	2.39E-05
481	577352.61	4194048.3	9.75E-04	3.28E-03	2.56E-03	1.52E-04	5.29E-04	4.04E-04	6.67E-06	4.04E-05	2.37E-05
482	577343.57	4194046.1	9.63E-04	3.24E-03	2.53E-03	1.50E-04	5.23E-04	3.99E-04	6.59E-06	3.99E-05	2.34E-05
483	577334.54	4194043.89	9.49E-04	3.19E-03	2.49E-03	1.48E-04	5.15E-04	3.93E-04	6.49E-06	3.93E-05	2.31E-05
484	577325.51	4194041.69	9.32E-04	3.14E-03	2.45E-03	1.45E-04	5.06E-04	3.86E-04	6.37E-06	3.86E-05	2.27E-05
485	577380.36	4194048.26	9.29E-04	3.13E-03	2.44E-03	1.45E-04	5.04E-04	3.85E-04	6.36E-06	3.85E-05	2.26E-05
486	577387.68	4194053.53	9.48E-04	3.19E-03	2.49E-03	1.48E-04	5.14E-04	3.93E-04	6.48E-06	3.93E-05	2.31E-05
487	577394.99	4194058.8	9.61E-04	3.23E-03	2.52E-03	1.50E-04	5.22E-04	3.99E-04	6.57E-06	3.98E-05	2.34E-05
488	577402.31	4194064.07	9.70E-04	3.26E-03	2.55E-03	1.51E-04	5.26E-04	4.02E-04	6.63E-06	4.02E-05	2.36E-05
489	577409.63	4194069.34	9.72E-04	3.27E-03	2.55E-03	1.52E-04	5.28E-04	4.03E-04	6.65E-06	4.03E-05	2.37E-05
490	577416.94	4194074.61	9.70E-04	3.26E-03	2.55E-03	1.51E-04	5.26E-04	4.02E-04	6.63E-06	4.02E-05	2.36E-05
491	577424.26	4194079.88	9.62E-04	3.24E-03	2.53E-03	1.50E-04	5.22E-04	3.99E-04	6.58E-06	3.98E-05	2.34E-05
492	577431.58	4194085.15	9.50E-04	3.20E-03	2.49E-03	1.48E-04	5.15E-04	3.94E-04	6.50E-06	3.93E-05	2.31E-05

493	577438.89	4194090.42	9.35E-04	3.15E-03	2.45E-03	1.46E-04	5.07E-04	3.88E-04	6.39E-06	3.87E-05	2.27E-05
494	577446.21	4194095.69	9.17E-04	3.09E-03	2.41E-03	1.43E-04	4.98E-04	3.80E-04	6.27E-06	3.80E-05	2.23E-05
495	577453.52	4194100.96	8.98E-04	3.02E-03	2.36E-03	1.40E-04	4.87E-04	3.72E-04	6.14E-06	3.72E-05	2.18E-05
496	577460.84	4194106.23	8.77E-04	2.95E-03	2.30E-03	1.37E-04	4.76E-04	3.64E-04	6.00E-06	3.63E-05	2.13E-05
497	577468.16	4194111.5	8.57E-04	2.88E-03	2.25E-03	1.33E-04	4.65E-04	3.55E-04	5.86E-06	3.55E-05	2.08E-05
498	577475.47	4194116.77	8.36E-04	2.81E-03	2.20E-03	1.30E-04	4.54E-04	3.47E-04	5.72E-06	3.46E-05	2.03E-05
499	577482.79	4194122.04	8.15E-04	2.74E-03	2.14E-03	1.27E-04	4.42E-04	3.38E-04	5.57E-06	3.37E-05	1.98E-05
500	577490.11	4194127.31	7.93E-04	2.67E-03	2.08E-03	1.24E-04	4.30E-04	3.29E-04	5.42E-06	3.29E-05	1.93E-05
501	577497.42	4194132.58	7.71E-04	2.59E-03	2.02E-03	1.20E-04	4.18E-04	3.20E-04	5.27E-06	3.19E-05	1.88E-05
502	577504.74	4194137.85	7.48E-04	2.52E-03	1.96E-03	1.17E-04	4.06E-04	3.10E-04	5.12E-06	3.10E-05	1.82E-05
503	577512.05	4194143.12	7.26E-04	2.44E-03	1.91E-03	1.13E-04	3.94E-04	3.01E-04	4.96E-06	3.01E-05	1.77E-05
504	577520.95	4194157.27	7.18E-04	2.42E-03	1.88E-03	1.12E-04	3.89E-04	2.98E-04	4.91E-06	2.97E-05	1.75E-05
505	577522.53	4194166.14	7.31E-04	2.46E-03	1.92E-03	1.14E-04	3.97E-04	3.03E-04	5.00E-06	3.03E-05	1.78E-05
506	577525.7	4194183.9	7.55E-04	2.54E-03	1.98E-03	1.18E-04	4.10E-04	3.13E-04	5.16E-06	3.13E-05	1.84E-05
507	577535.18	4194237.16	7.90E-04	2.66E-03	2.08E-03	1.23E-04	4.29E-04	3.28E-04	5.41E-06	3.27E-05	1.92E-05
508	577538.34	4194254.91	7.81E-04	2.63E-03	2.05E-03	1.22E-04	4.24E-04	3.24E-04	5.34E-06	3.23E-05	1.90E-05
509	577541.51	4194272.67	7.58E-04	2.55E-03	1.99E-03	1.18E-04	4.12E-04	3.14E-04	5.19E-06	3.14E-05	1.84E-05
510	577544.67	4194290.42	7.19E-04	2.42E-03	1.89E-03	1.12E-04	3.90E-04	2.98E-04	4.92E-06	2.98E-05	1.75E-05
511	577547.83	4194308.18	6.75E-04	2.27E-03	1.77E-03	1.05E-04	3.66E-04	2.80E-04	4.62E-06	2.80E-05	1.64E-05
512	577549.41	4194317.05	6.52E-04	2.19E-03	1.71E-03	1.02E-04	3.54E-04	2.70E-04	4.46E-06	2.70E-05	1.59E-05
513	577373.05	4194042.99	9.06E-04	3.05E-03	2.38E-03	1.41E-04	4.92E-04	3.76E-04	6.20E-06	3.75E-05	2.20E-05
514	577364.01	4194040.78	9.03E-04	3.04E-03	2.37E-03	1.41E-04	4.90E-04	3.75E-04	6.18E-06	3.74E-05	2.20E-05
515	577354.98	4194038.58	8.96E-04	3.02E-03	2.35E-03	1.40E-04	4.86E-04	3.72E-04	6.13E-06	3.71E-05	2.18E-05
516	577345.94	4194036.38	8.85E-04	2.98E-03	2.32E-03	1.38E-04	4.80E-04	3.67E-04	6.05E-06	3.67E-05	2.15E-05
517	577336.91	4194034.18	8.72E-04	2.94E-03	2.29E-03	1.36E-04	4.73E-04	3.62E-04	5.97E-06	3.61E-05	2.12E-05
518	577327.88	4194031.98	8.57E-04	2.88E-03	2.25E-03	1.34E-04	4.65E-04	3.55E-04	5.86E-06	3.55E-05	2.08E-05
519	577382.67	4194038.5	8.58E-04	2.89E-03	2.25E-03	1.34E-04	4.66E-04	3.56E-04	5.87E-06	3.55E-05	2.09E-05
520	577397.19	4194048.96	8.89E-04	2.99E-03	2.33E-03	1.39E-04	4.82E-04	3.69E-04	6.08E-06	3.68E-05	2.16E-05
521	577411.7	4194059.41	9.03E-04	3.04E-03	2.37E-03	1.41E-04	4.90E-04	3.74E-04	6.17E-06	3.74E-05	2.20E-05
522	577426.22	4194069.87	8.97E-04	3.02E-03	2.36E-03	1.40E-04	4.87E-04	3.72E-04	6.14E-06	3.72E-05	2.18E-05
523	577440.74	4194080.33	8.76E-04	2.95E-03	2.30E-03	1.37E-04	4.76E-04	3.63E-04	5.99E-06	3.63E-05	2.13E-05
524	577455.25	4194090.78	8.45E-04	2.85E-03	2.22E-03	1.32E-04	4.59E-04	3.50E-04	5.78E-06	3.50E-05	2.06E-05
525	577469.77	4194101.24	8.09E-04	2.72E-03	2.13E-03	1.26E-04	4.39E-04	3.36E-04	5.54E-06	3.35E-05	1.97E-05
526	577484.29	4194111.7	7.72E-04	2.60E-03	2.03E-03	1.20E-04	4.19E-04	3.20E-04	5.28E-06	3.20E-05	1.88E-05
527	577498.8	4194122.15	7.33E-04	2.47E-03	1.93E-03	1.14E-04	3.98E-04	3.04E-04	5.01E-06	3.04E-05	1.78E-05
528	577513.32	4194132.61	6.93E-04	2.33E-03	1.82E-03	1.08E-04	3.76E-04	2.87E-04	4.74E-06	2.87E-05	1.68E-05
529	577529.4	4194151.87	6.65E-04	2.24E-03	1.75E-03	1.04E-04	3.61E-04	2.76E-04	4.55E-06	2.76E-05	1.62E-05
530	577530.97	4194160.68	6.78E-04	2.28E-03	1.78E-03	1.06E-04	3.68E-04	2.81E-04	4.63E-06	2.81E-05	1.65E-05
531	577534.11	4194178.29	7.00E-04	2.35E-03	1.84E-03	1.09E-04	3.80E-04	2.90E-04	4.78E-06	2.90E-05	1.70E-05
532	577537.25	4194195.9	7.18E-04	2.42E-03	1.88E-03	1.12E-04	3.89E-04	2.98E-04	4.91E-06	2.97E-05	1.75E-05
533	577543.52	4194231.13	7.35E-04	2.47E-03	1.93E-03	1.15E-04	3.99E-04	3.05E-04	5.03E-06	3.04E-05	1.79E-05
534	577546.66	4194248.74	7.28E-04	2.45E-03	1.91E-03	1.13E-04	3.95E-04	3.02E-04	4.98E-06	3.02E-05	1.77E-05
535	577549.8	4194266.36	7.00E-04	2.36E-03	1.84E-03	1.09E-04	3.80E-04	2.90E-04	4.79E-06	2.90E-05	1.70E-05
536	577551.36	4194275.16	6.86E-04	2.31E-03	1.80E-03	1.07E-04	3.72E-04	2.84E-04	4.69E-06	2.84E-05	1.67E-05
537	577554.5	4194292.78	6.53E-04	2.20E-03	1.71E-03	1.02E-04	3.54E-04	2.71E-04	4.46E-06	2.70E-05	1.59E-05
538	577557.64	4194310.39	6.16E-04	2.07E-03	1.62E-03	9.59E-05	3.34E-04	2.55E-04	4.21E-06	2.55E-05	1.50E-05
539	577366.38	4194031.07	8.33E-04	2.80E-03	2.19E-03	1.30E-04	4.52E-04	3.45E-04	5.70E-06	3.45E-05	2.03E-05
540	577357.35	4194028.87	8.26E-04	2.78E-03	2.17E-03	1.29E-04	4.48E-04	3.42E-04	5.65E-06	3.42E-05	2.01E-05
541	577348.31	4194026.67	8.16E-04	2.75E-03	2.14E-03	1.27E-04	4.43E-04	3.38E-04	5.58E-06	3.38E-05	1.99E-05
542	577339.28	4194024.46	8.04E-04	2.71E-03	2.11E-03	1.25E-04	4.36E-04	3.33E-04	5.50E-06	3.33E-05	1.96E-05
543	577330.24	4194022.26	7.90E-04	2.66E-03	2.07E-03	1.23E-04	4.29E-04	3.28E-04	5.40E-06	3.27E-05	1.92E-05
544	577384.99	4194028.75	7.94E-04	2.67E-03	2.09E-03	1.24E-04	4.31E-04	3.29E-04	5.43E-06	3.29E-05	1.93E-05
545	577399.4	4194039.13	8.25E-04	2.77E-03	2.17E-03	1.28E-04	4.47E-04	3.42E-04	5.64E-06	3.42E-05	2.01E-05
546	577413.81	4194049.51	8.39E-04	2.83E-03	2.20E-03	1.31E-04	4.56E-04	3.48E-04	5.74E-06	3.48E-05	2.04E-05
547	577428.22	4194059.89	8.38E-04	2.82E-03	2.20E-03	1.31E-04	4.55E-04	3.48E-04	5.73E-06	3.47E-05	2.04E-05
548	577442.63	4194070.27	8.22E-04	2.77E-03	2.16E-03	1.28E-04	4.46E-04	3.41E-04	5.62E-06	3.41E-05	2.00E-05
549	577457.04	4194080.65	7.97E-04	2.68E-03	2.09E-03	1.24E-04	4.32E-04	3.30E-04	5.45E-06	3.30E-05	1.94E-05
550	577471.45	4194091.03	7.66E-04	2.58E-03	2.01E-03	1.19E-04	4.15E-04	3.17E-04	5.24E-06	3.17E-05	1.86E-05
551	577485.86	4194101.41	7.32E-04	2.46E-03	1.92E-03	1.14E-04	3.97E-04	3.04E-04	5.01E-06	3.03E-05	1.78E-05
552	577500.27	4194111.79	6.98E-04	2.35E-03	1.83E-03	1.09E-04	3.79E-04	2.89E-04	4.77E-06	2.89E-05	1.70E-05
553	577514.68	4194122.17	6.61E-04	2.23E-03	1.74E-03	1.03E-04	3.59E-04	2.74E-04	4.52E-06	2.74E-05	1.61E-05
554	577529.1	4194132.55	6.25E-04	2.10E-03	1.64E-03	9.74E-05	3.39E-04	2.59E-04	4.27E-06	2.59E-05	1.52E-05

555	577537.86	4194146.48	6.19E-04	2.08E-03	1.62E-03	9.64E-05	3.36E-04	2.57E-04	4.23E-06	2.56E-05	1.51E-05
556	577540.97	4194163.97	6.40E-04	2.15E-03	1.68E-03	9.97E-05	3.47E-04	2.65E-04	4.38E-06	2.65E-05	1.56E-05
557	577544.09	4194181.45	6.59E-04	2.22E-03	1.73E-03	1.03E-04	3.57E-04	2.73E-04	4.50E-06	2.73E-05	1.60E-05
558	577547.2	4194198.94	6.74E-04	2.27E-03	1.77E-03	1.05E-04	3.66E-04	2.79E-04	4.61E-06	2.79E-05	1.64E-05
559	577553.43	4194233.91	6.85E-04	2.30E-03	1.80E-03	1.07E-04	3.72E-04	2.84E-04	4.68E-06	2.84E-05	1.67E-05
560	577556.54	4194251.39	6.66E-04	2.24E-03	1.75E-03	1.04E-04	3.61E-04	2.76E-04	4.55E-06	2.76E-05	1.62E-05
561	577559.66	4194268.88	6.39E-04	2.15E-03	1.68E-03	9.96E-05	3.47E-04	2.65E-04	4.37E-06	2.65E-05	1.56E-05
562	577562.77	4194286.36	6.10E-04	2.05E-03	1.60E-03	9.50E-05	3.31E-04	2.53E-04	4.17E-06	2.53E-05	1.48E-05
563	577565.89	4194303.85	5.79E-04	1.95E-03	1.52E-03	9.02E-05	3.14E-04	2.40E-04	3.96E-06	2.40E-05	1.41E-05
564	577368.75	4194021.35	7.70E-04	2.59E-03	2.02E-03	1.20E-04	4.18E-04	3.19E-04	5.27E-06	3.19E-05	1.87E-05
565	577359.71	4194019.15	7.63E-04	2.57E-03	2.00E-03	1.19E-04	4.14E-04	3.16E-04	5.22E-06	3.16E-05	1.86E-05
566	577350.68	4194016.95	7.54E-04	2.54E-03	1.98E-03	1.18E-04	4.09E-04	3.13E-04	5.16E-06	3.12E-05	1.83E-05
567	577341.65	4194014.75	7.43E-04	2.50E-03	1.95E-03	1.16E-04	4.03E-04	3.08E-04	5.08E-06	3.08E-05	1.81E-05
568	577332.61	4194012.55	7.31E-04	2.46E-03	1.92E-03	1.14E-04	3.96E-04	3.03E-04	5.00E-06	3.03E-05	1.78E-05
569	577387.63	4194019.23	7.38E-04	2.48E-03	1.94E-03	1.15E-04	4.00E-04	3.06E-04	5.04E-06	3.06E-05	1.79E-05
570	577395.11	4194024.62	7.55E-04	2.54E-03	1.98E-03	1.18E-04	4.09E-04	3.13E-04	5.16E-06	3.13E-05	1.84E-05
571	577402.6	4194030.01	7.68E-04	2.58E-03	2.02E-03	1.20E-04	4.17E-04	3.18E-04	5.25E-06	3.18E-05	1.87E-05
572	577410.08	4194035.4	7.77E-04	2.62E-03	2.04E-03	1.21E-04	4.22E-04	3.22E-04	5.32E-06	3.22E-05	1.89E-05
573	577417.56	4194040.79	7.83E-04	2.64E-03	2.06E-03	1.22E-04	4.25E-04	3.25E-04	5.36E-06	3.24E-05	1.91E-05
574	577425.04	4194046.18	7.85E-04	2.64E-03	2.06E-03	1.22E-04	4.26E-04	3.26E-04	5.37E-06	3.25E-05	1.91E-05
575	577432.53	4194051.57	7.83E-04	2.64E-03	2.06E-03	1.22E-04	4.25E-04	3.25E-04	5.36E-06	3.24E-05	1.91E-05
576	577440.01	4194056.96	7.77E-04	2.62E-03	2.04E-03	1.21E-04	4.22E-04	3.22E-04	5.32E-06	3.22E-05	1.89E-05
577	577447.49	4194062.35	7.69E-04	2.59E-03	2.02E-03	1.20E-04	4.17E-04	3.19E-04	5.26E-06	3.18E-05	1.87E-05
578	577454.98	4194067.74	7.58E-04	2.55E-03	1.99E-03	1.18E-04	4.11E-04	3.14E-04	5.18E-06	3.14E-05	1.84E-05
579	577462.46	4194073.13	7.45E-04	2.51E-03	1.96E-03	1.16E-04	4.04E-04	3.09E-04	5.09E-06	3.09E-05	1.81E-05
580	577469.94	4194078.52	7.31E-04	2.46E-03	1.92E-03	1.14E-04	3.97E-04	3.03E-04	5.00E-06	3.03E-05	1.78E-05
581	577477.42	4194083.91	7.16E-04	2.41E-03	1.88E-03	1.12E-04	3.88E-04	2.97E-04	4.90E-06	2.96E-05	1.74E-05
582	577484.91	4194089.3	7.00E-04	2.36E-03	1.84E-03	1.09E-04	3.80E-04	2.90E-04	4.79E-06	2.90E-05	1.70E-05
583	577492.39	4194094.69	6.85E-04	2.30E-03	1.80E-03	1.07E-04	3.71E-04	2.84E-04	4.68E-06	2.84E-05	1.67E-05
584	577499.87	4194100.08	6.68E-04	2.25E-03	1.75E-03	1.04E-04	3.63E-04	2.77E-04	4.57E-06	2.77E-05	1.63E-05
585	577507.35	4194105.47	6.51E-04	2.19E-03	1.71E-03	1.01E-04	3.53E-04	2.70E-04	4.45E-06	2.70E-05	1.58E-05
586	577514.84	4194110.86	6.34E-04	2.13E-03	1.67E-03	9.88E-05	3.44E-04	2.63E-04	4.34E-06	2.63E-05	1.54E-05
587	577522.32	4194116.25	6.17E-04	2.08E-03	1.62E-03	9.61E-05	3.35E-04	2.56E-04	4.22E-06	2.56E-05	1.50E-05
588	577529.8	4194121.64	6.00E-04	2.02E-03	1.58E-03	9.35E-05	3.26E-04	2.49E-04	4.11E-06	2.49E-05	1.46E-05
589	577537.28	4194127.03	5.84E-04	1.96E-03	1.53E-03	9.09E-05	3.17E-04	2.42E-04	3.99E-06	2.42E-05	1.42E-05
590	577546.38	4194141.5	5.77E-04	1.94E-03	1.52E-03	8.99E-05	3.13E-04	2.39E-04	3.95E-06	2.39E-05	1.40E-05
591	577548	4194150.57	5.87E-04	1.98E-03	1.54E-03	9.15E-05	3.19E-04	2.43E-04	4.02E-06	2.43E-05	1.43E-05
592	577549.62	4194159.65	5.97E-04	2.01E-03	1.57E-03	9.30E-05	3.24E-04	2.48E-04	4.08E-06	2.47E-05	1.45E-05
593	577551.23	4194168.73	6.06E-04	2.04E-03	1.59E-03	9.45E-05	3.29E-04	2.51E-04	4.15E-06	2.51E-05	1.47E-05
594	577552.85	4194177.81	6.15E-04	2.07E-03	1.61E-03	9.58E-05	3.34E-04	2.55E-04	4.20E-06	2.55E-05	1.50E-05
595	577554.47	4194186.89	6.22E-04	2.09E-03	1.63E-03	9.70E-05	3.38E-04	2.58E-04	4.26E-06	2.58E-05	1.51E-05
596	577556.09	4194195.97	6.29E-04	2.12E-03	1.65E-03	9.80E-05	3.41E-04	2.61E-04	4.30E-06	2.60E-05	1.53E-05
597	577562.55	4194232.28	6.39E-04	2.15E-03	1.68E-03	9.96E-05	3.47E-04	2.65E-04	4.37E-06	2.65E-05	1.56E-05
598	577564.17	4194241.36	6.35E-04	2.14E-03	1.67E-03	9.90E-05	3.45E-04	2.63E-04	4.35E-06	2.63E-05	1.55E-05
599	577565.79	4194250.44	6.19E-04	2.08E-03	1.63E-03	9.64E-05	3.36E-04	2.57E-04	4.23E-06	2.56E-05	1.51E-05
600	577567.4	4194259.52	6.03E-04	2.03E-03	1.58E-03	9.40E-05	3.27E-04	2.50E-04	4.13E-06	2.50E-05	1.47E-05
601	577569.02	4194268.6	5.91E-04	1.99E-03	1.55E-03	9.20E-05	3.20E-04	2.45E-04	4.04E-06	2.45E-05	1.44E-05
602	577570.64	4194277.68	5.76E-04	1.94E-03	1.51E-03	8.97E-05	3.13E-04	2.39E-04	3.94E-06	2.39E-05	1.40E-05
603	577572.26	4194286.76	5.60E-04	1.88E-03	1.47E-03	8.72E-05	3.04E-04	2.32E-04	3.83E-06	2.32E-05	1.36E-05
604	577573.87	4194295.84	5.46E-04	1.84E-03	1.43E-03	8.51E-05	2.96E-04	2.27E-04	3.74E-06	2.26E-05	1.33E-05
605	577575.49	4194304.91	5.32E-04	1.79E-03	1.40E-03	8.28E-05	2.89E-04	2.20E-04	3.64E-06	2.20E-05	1.29E-05
606	577577.11	4194313.99	5.16E-04	1.74E-03	1.36E-03	8.04E-05	2.80E-04	2.14E-04	3.53E-06	2.14E-05	1.26E-05
607	577578.72	4194323.07	5.00E-04	1.68E-03	1.31E-03	7.79E-05	2.71E-04	2.07E-04	3.42E-06	2.07E-05	1.22E-05
608	577380.15	4194013.84	7.18E-04	2.42E-03	1.88E-03	1.12E-04	3.89E-04	2.98E-04	4.91E-06	2.97E-05	1.75E-05
609	577371.12	4194011.64	7.14E-04	2.40E-03	1.87E-03	1.11E-04	3.87E-04	2.96E-04	4.88E-06	2.96E-05	1.74E-05
610	577362.08	4194009.44	7.07E-04	2.38E-03	1.86E-03	1.10E-04	3.84E-04	2.93E-04	4.84E-06	2.93E-05	1.72E-05
611	577353.05	4194007.23	6.99E-04	2.35E-03	1.84E-03	1.09E-04	3.79E-04	2.90E-04	4.78E-06	2.89E-05	1.70E-05
612	577344.01	4194005.03	6.89E-04	2.32E-03	1.81E-03	1.07E-04	3.74E-04	2.86E-04	4.71E-06	2.85E-05	1.68E-05
613	577334.98	4194002.83	6.77E-04	2.28E-03	1.78E-03	1.05E-04	3.67E-04	2.81E-04	4.63E-06	2.80E-05	1.65E-05
614	577389.94	4194009.47	6.86E-04	2.31E-03	1.80E-03	1.07E-04	3.72E-04	2.84E-04	4.69E-06	2.84E-05	1.67E-05
615	577397.36	4194014.82	7.02E-04	2.36E-03	1.84E-03	1.09E-04	3.81E-04	2.91E-04	4.80E-06	2.91E-05	1.71E-05
616	577404.78	4194020.16	7.15E-04	2.41E-03	1.88E-03	1.11E-04	3.88E-04	2.97E-04	4.89E-06	2.96E-05	1.74E-05

617	577412.21	4194025.51	7.25E-04	2.44E-03	1.90E-03	1.13E-04	3.93E-04	3.00E-04	4.96E-06	3.00E-05	1.76E-05
618	577419.63	4194030.86	7.31E-04	2.46E-03	1.92E-03	1.14E-04	3.97E-04	3.03E-04	5.00E-06	3.03E-05	1.78E-05
619	577427.05	4194036.2	7.34E-04	2.47E-03	1.93E-03	1.14E-04	3.98E-04	3.04E-04	5.02E-06	3.04E-05	1.79E-05
620	577434.47	4194041.55	7.34E-04	2.47E-03	1.93E-03	1.14E-04	3.98E-04	3.04E-04	5.02E-06	3.04E-05	1.78E-05
621	577441.9	4194046.9	7.30E-04	2.46E-03	1.92E-03	1.14E-04	3.96E-04	3.03E-04	4.99E-06	3.02E-05	1.78E-05
622	577449.32	4194052.24	7.23E-04	2.43E-03	1.90E-03	1.13E-04	3.93E-04	3.00E-04	4.95E-06	3.00E-05	1.76E-05
623	577456.74	4194057.59	7.14E-04	2.40E-03	1.88E-03	1.11E-04	3.88E-04	2.96E-04	4.89E-06	2.96E-05	1.74E-05
624	577464.16	4194062.94	7.04E-04	2.37E-03	1.85E-03	1.10E-04	3.82E-04	2.92E-04	4.81E-06	2.92E-05	1.71E-05
625	577471.59	4194068.28	6.92E-04	2.33E-03	1.82E-03	1.08E-04	3.75E-04	2.87E-04	4.73E-06	2.87E-05	1.68E-05
626	577479.01	4194073.63	6.79E-04	2.28E-03	1.78E-03	1.06E-04	3.68E-04	2.81E-04	4.64E-06	2.81E-05	1.65E-05
627	577486.43	4194078.98	6.65E-04	2.24E-03	1.75E-03	1.04E-04	3.61E-04	2.76E-04	4.55E-06	2.75E-05	1.62E-05
628	577493.85	4194084.32	6.51E-04	2.19E-03	1.71E-03	1.01E-04	3.53E-04	2.70E-04	4.45E-06	2.70E-05	1.58E-05
629	577501.27	4194089.67	6.36E-04	2.14E-03	1.67E-03	9.91E-05	3.45E-04	2.64E-04	4.35E-06	2.64E-05	1.55E-05
630	577508.7	4194095.01	6.21E-04	2.09E-03	1.63E-03	9.68E-05	3.37E-04	2.58E-04	4.25E-06	2.57E-05	1.51E-05
631	577516.12	4194100.36	6.06E-04	2.04E-03	1.59E-03	9.44E-05	3.29E-04	2.51E-04	4.14E-06	2.51E-05	1.47E-05
632	577523.54	4194105.71	5.91E-04	1.99E-03	1.55E-03	9.20E-05	3.20E-04	2.45E-04	4.04E-06	2.45E-05	1.44E-05
633	577530.96	4194111.05	5.75E-04	1.94E-03	1.51E-03	8.97E-05	3.12E-04	2.39E-04	3.94E-06	2.38E-05	1.40E-05
634	577538.39	4194116.4	5.60E-04	1.89E-03	1.47E-03	8.73E-05	3.04E-04	2.32E-04	3.83E-06	2.32E-05	1.36E-05
635	577545.81	4194121.75	5.45E-04	1.83E-03	1.43E-03	8.49E-05	2.96E-04	2.26E-04	3.73E-06	2.26E-05	1.33E-05
636	577554.84	4194136.1	5.39E-04	1.81E-03	1.42E-03	8.40E-05	2.92E-04	2.23E-04	3.69E-06	2.23E-05	1.31E-05
637	577556.44	4194145.1	5.48E-04	1.84E-03	1.44E-03	8.54E-05	2.97E-04	2.27E-04	3.75E-06	2.27E-05	1.33E-05
638	577558.04	4194154.11	5.57E-04	1.87E-03	1.46E-03	8.68E-05	3.02E-04	2.31E-04	3.81E-06	2.31E-05	1.35E-05
639	577559.65	4194163.12	5.65E-04	1.90E-03	1.48E-03	8.81E-05	3.07E-04	2.34E-04	3.87E-06	2.34E-05	1.38E-05
640	577561.25	4194172.12	5.73E-04	1.93E-03	1.50E-03	8.93E-05	3.11E-04	2.38E-04	3.92E-06	2.37E-05	1.39E-05
641	577562.86	4194181.13	5.80E-04	1.95E-03	1.52E-03	9.04E-05	3.15E-04	2.40E-04	3.97E-06	2.40E-05	1.41E-05
642	577564.46	4194190.13	5.86E-04	1.97E-03	1.54E-03	9.13E-05	3.18E-04	2.43E-04	4.01E-06	2.43E-05	1.43E-05
643	577566.06	4194199.14	5.91E-04	1.99E-03	1.55E-03	9.21E-05	3.21E-04	2.45E-04	4.04E-06	2.45E-05	1.44E-05
644	577572.48	4194235.16	5.97E-04	2.01E-03	1.57E-03	9.30E-05	3.24E-04	2.47E-04	4.08E-06	2.47E-05	1.45E-05
645	577574.08	4194244.17	5.87E-04	1.98E-03	1.54E-03	9.15E-05	3.19E-04	2.44E-04	4.02E-06	2.43E-05	1.43E-05
646	577575.69	4194253.17	5.70E-04	1.92E-03	1.50E-03	8.88E-05	3.09E-04	2.36E-04	3.90E-06	2.36E-05	1.39E-05
647	577577.29	4194262.18	5.56E-04	1.87E-03	1.46E-03	8.66E-05	3.02E-04	2.30E-04	3.80E-06	2.30E-05	1.35E-05
648	577578.9	4194271.18	5.43E-04	1.83E-03	1.42E-03	8.45E-05	2.94E-04	2.25E-04	3.71E-06	2.25E-05	1.32E-05
649	577580.5	4194280.19	5.28E-04	1.78E-03	1.39E-03	8.22E-05	2.86E-04	2.19E-04	3.61E-06	2.19E-05	1.28E-05
650	577582.1	4194289.2	5.13E-04	1.73E-03	1.35E-03	7.99E-05	2.78E-04	2.13E-04	3.51E-06	2.12E-05	1.25E-05
651	577583.71	4194298.2	5.01E-04	1.68E-03	1.31E-03	7.80E-05	2.72E-04	2.08E-04	3.42E-06	2.07E-05	1.22E-05
652	577586.92	4194316.21	4.77E-04	1.60E-03	1.25E-03	7.43E-05	2.59E-04	1.98E-04	3.26E-06	1.97E-05	1.16E-05
653	577588.52	4194325.22	4.64E-04	1.56E-03	1.22E-03	7.23E-05	2.52E-04	1.92E-04	3.17E-06	1.92E-05	1.13E-05
654	577382.52	4194004.12	6.68E-04	2.25E-03	1.75E-03	1.04E-04	3.62E-04	2.77E-04	4.57E-06	2.77E-05	1.62E-05
655	577373.48	4194001.92	6.63E-04	2.23E-03	1.74E-03	1.03E-04	3.60E-04	2.75E-04	4.54E-06	2.75E-05	1.61E-05
656	577364.45	4193999.72	6.57E-04	2.21E-03	1.73E-03	1.02E-04	3.57E-04	2.72E-04	4.49E-06	2.72E-05	1.60E-05
657	577355.42	4193997.52	6.49E-04	2.18E-03	1.70E-03	1.01E-04	3.52E-04	2.69E-04	4.44E-06	2.69E-05	1.58E-05
658	577346.38	4193995.32	6.40E-04	2.15E-03	1.68E-03	9.97E-05	3.47E-04	2.65E-04	4.38E-06	2.65E-05	1.56E-05
659	577337.35	4193993.11	6.29E-04	2.12E-03	1.65E-03	9.80E-05	3.41E-04	2.61E-04	4.30E-06	2.61E-05	1.53E-05
660	577392.25	4193999.72	6.39E-04	2.15E-03	1.68E-03	9.96E-05	3.47E-04	2.65E-04	4.37E-06	2.65E-05	1.55E-05
661	577399.62	4194005.02	6.54E-04	2.20E-03	1.72E-03	1.02E-04	3.55E-04	2.71E-04	4.47E-06	2.71E-05	1.59E-05
662	577406.99	4194010.33	6.67E-04	2.24E-03	1.75E-03	1.04E-04	3.62E-04	2.76E-04	4.56E-06	2.76E-05	1.62E-05
663	577414.35	4194015.64	6.77E-04	2.28E-03	1.78E-03	1.05E-04	3.67E-04	2.81E-04	4.63E-06	2.80E-05	1.65E-05
664	577421.72	4194020.94	6.83E-04	2.30E-03	1.79E-03	1.06E-04	3.71E-04	2.83E-04	4.67E-06	2.83E-05	1.66E-05
665	577429.09	4194026.25	6.87E-04	2.31E-03	1.80E-03	1.07E-04	3.73E-04	2.85E-04	4.70E-06	2.85E-05	1.67E-05
666	577436.46	4194031.56	6.88E-04	2.31E-03	1.81E-03	1.07E-04	3.73E-04	2.85E-04	4.70E-06	2.85E-05	1.67E-05
667	577443.82	4194036.86	6.86E-04	2.31E-03	1.80E-03	1.07E-04	3.72E-04	2.84E-04	4.69E-06	2.84E-05	1.67E-05
668	577451.19	4194042.17	6.81E-04	2.29E-03	1.79E-03	1.06E-04	3.70E-04	2.82E-04	4.66E-06	2.82E-05	1.66E-05
669	577458.56	4194047.48	6.74E-04	2.27E-03	1.77E-03	1.05E-04	3.66E-04	2.80E-04	4.61E-06	2.79E-05	1.64E-05
670	577465.92	4194052.78	6.65E-04	2.24E-03	1.75E-03	1.04E-04	3.61E-04	2.76E-04	4.55E-06	2.76E-05	1.62E-05
671	577473.29	4194058.09	6.55E-04	2.21E-03	1.72E-03	1.02E-04	3.56E-04	2.72E-04	4.48E-06	2.72E-05	1.59E-05
672	577480.66	4194063.4	6.44E-04	2.17E-03	1.69E-03	1.00E-04	3.50E-04	2.67E-04	4.41E-06	2.67E-05	1.57E-05
673	577488.03	4194068.7	6.32E-04	2.13E-03	1.66E-03	9.85E-05	3.43E-04	2.62E-04	4.32E-06	2.62E-05	1.54E-05
674	577495.39	4194074.01	6.19E-04	2.08E-03	1.63E-03	9.64E-05	3.36E-04	2.57E-04	4.23E-06	2.56E-05	1.51E-05
675	577502.76	4194079.32	6.06E-04	2.04E-03	1.59E-03	9.44E-05	3.29E-04	2.51E-04	4.14E-06	2.51E-05	1.47E-05
676	577510.13	4194084.62	5.92E-04	1.99E-03	1.56E-03	9.23E-05	3.21E-04	2.46E-04	4.05E-06	2.45E-05	1.44E-05
677	577517.49	4194089.93	5.79E-04	1.95E-03	1.52E-03	9.02E-05	3.14E-04	2.40E-04	3.96E-06	2.40E-05	1.41E-05
678	577524.86	4194095.24	5.65E-04	1.90E-03	1.48E-03	8.80E-05	3.07E-04	2.34E-04	3.86E-06	2.34E-05	1.37E-05

679	577532.23	4194100.54	5.51E-04	1.86E-03	1.45E-03	8.59E-05	2.99E-04	2.29E-04	3.77E-06	2.28E-05	1.34E-05
680	577539.6	4194105.85	5.38E-04	1.81E-03	1.41E-03	8.38E-05	2.92E-04	2.23E-04	3.68E-06	2.23E-05	1.31E-05
681	577546.96	4194111.16	5.24E-04	1.76E-03	1.38E-03	8.17E-05	2.84E-04	2.17E-04	3.58E-06	2.17E-05	1.28E-05
682	577554.33	4194116.46	5.10E-04	1.72E-03	1.34E-03	7.95E-05	2.77E-04	2.12E-04	3.49E-06	2.11E-05	1.24E-05
683	577563.29	4194130.71	5.04E-04	1.70E-03	1.32E-03	7.86E-05	2.74E-04	2.09E-04	3.45E-06	2.09E-05	1.23E-05
684	577564.88	4194139.65	5.13E-04	1.73E-03	1.35E-03	7.99E-05	2.78E-04	2.13E-04	3.51E-06	2.12E-05	1.25E-05
685	577568.06	4194157.52	5.28E-04	1.78E-03	1.39E-03	8.23E-05	2.87E-04	2.19E-04	3.61E-06	2.19E-05	1.28E-05
686	577569.66	4194166.46	5.35E-04	1.80E-03	1.41E-03	8.34E-05	2.91E-04	2.22E-04	3.66E-06	2.22E-05	1.30E-05
687	577571.25	4194175.4	5.42E-04	1.82E-03	1.42E-03	8.44E-05	2.94E-04	2.25E-04	3.70E-06	2.24E-05	1.32E-05
688	577574.43	4194193.28	5.52E-04	1.86E-03	1.45E-03	8.60E-05	3.00E-04	2.29E-04	3.78E-06	2.29E-05	1.34E-05
689	577576.02	4194202.22	5.56E-04	1.87E-03	1.46E-03	8.67E-05	3.02E-04	2.31E-04	3.80E-06	2.30E-05	1.35E-05
690	577582.39	4194237.97	5.57E-04	1.88E-03	1.46E-03	8.68E-05	3.02E-04	2.31E-04	3.81E-06	2.31E-05	1.36E-05
691	577583.99	4194246.91	5.42E-04	1.83E-03	1.42E-03	8.45E-05	2.94E-04	2.25E-04	3.71E-06	2.25E-05	1.32E-05
692	577587.17	4194264.79	5.15E-04	1.73E-03	1.35E-03	8.03E-05	2.80E-04	2.14E-04	3.52E-06	2.14E-05	1.25E-05
693	577588.76	4194273.73	5.03E-04	1.69E-03	1.32E-03	7.84E-05	2.73E-04	2.09E-04	3.44E-06	2.08E-05	1.22E-05
694	577590.35	4194282.67	4.90E-04	1.65E-03	1.29E-03	7.63E-05	2.66E-04	2.03E-04	3.35E-06	2.03E-05	1.19E-05
695	577593.54	4194300.54	4.69E-04	1.58E-03	1.23E-03	7.31E-05	2.54E-04	1.94E-04	3.21E-06	1.94E-05	1.14E-05
696	577595.13	4194309.48	4.58E-04	1.54E-03	1.20E-03	7.14E-05	2.49E-04	1.90E-04	3.13E-06	1.90E-05	1.11E-05
697	577596.72	4194318.42	4.47E-04	1.50E-03	1.17E-03	6.96E-05	2.43E-04	1.85E-04	3.06E-06	1.85E-05	1.09E-05
698	577598.31	4194327.36	4.36E-04	1.47E-03	1.14E-03	6.79E-05	2.37E-04	1.81E-04	2.98E-06	1.81E-05	1.06E-05
699	577384.89	4193994.41	6.22E-04	2.09E-03	1.63E-03	9.69E-05	3.38E-04	2.58E-04	4.25E-06	2.58E-05	1.51E-05
700	577375.85	4193992.21	6.18E-04	2.08E-03	1.62E-03	9.63E-05	3.35E-04	2.56E-04	4.23E-06	2.56E-05	1.50E-05
701	577366.82	4193990	6.12E-04	2.06E-03	1.61E-03	9.53E-05	3.32E-04	2.54E-04	4.18E-06	2.53E-05	1.49E-05
702	577357.78	4193987.8	6.04E-04	2.03E-03	1.59E-03	9.41E-05	3.28E-04	2.51E-04	4.13E-06	2.50E-05	1.47E-05
703	577348.75	4193985.6	5.96E-04	2.00E-03	1.56E-03	9.28E-05	3.23E-04	2.47E-04	4.07E-06	2.47E-05	1.45E-05
704	577339.72	4193983.4	5.86E-04	1.97E-03	1.54E-03	9.13E-05	3.18E-04	2.43E-04	4.01E-06	2.43E-05	1.42E-05
705	577394.57	4193989.96	5.96E-04	2.01E-03	1.57E-03	9.29E-05	3.24E-04	2.47E-04	4.08E-06	2.47E-05	1.45E-05
706	577401.89	4193995.23	6.11E-04	2.05E-03	1.60E-03	9.51E-05	3.31E-04	2.53E-04	4.18E-06	2.53E-05	1.49E-05
707	577409.2	4194000.5	6.23E-04	2.10E-03	1.64E-03	9.70E-05	3.38E-04	2.58E-04	4.26E-06	2.58E-05	1.52E-05
708	577416.52	4194005.77	6.33E-04	2.13E-03	1.66E-03	9.86E-05	3.43E-04	2.62E-04	4.33E-06	2.62E-05	1.54E-05
709	577423.84	4194011.04	6.40E-04	2.15E-03	1.68E-03	9.96E-05	3.47E-04	2.65E-04	4.37E-06	2.65E-05	1.56E-05
710	577431.15	4194016.31	6.44E-04	2.17E-03	1.69E-03	1.00E-04	3.49E-04	2.67E-04	4.40E-06	2.67E-05	1.57E-05
711	577438.47	4194021.58	6.46E-04	2.17E-03	1.70E-03	1.01E-04	3.50E-04	2.68E-04	4.42E-06	2.67E-05	1.57E-05
712	577445.78	4194026.85	6.45E-04	2.17E-03	1.69E-03	1.00E-04	3.50E-04	2.67E-04	4.41E-06	2.67E-05	1.57E-05
713	577453.1	4194032.12	6.42E-04	2.16E-03	1.69E-03	1.00E-04	3.48E-04	2.66E-04	4.39E-06	2.66E-05	1.56E-05
714	577460.42	4194037.39	6.37E-04	2.14E-03	1.67E-03	9.92E-05	3.45E-04	2.64E-04	4.35E-06	2.64E-05	1.55E-05
715	577467.73	4194042.66	6.30E-04	2.12E-03	1.65E-03	9.81E-05	3.42E-04	2.61E-04	4.31E-06	2.61E-05	1.53E-05
716	577475.05	4194047.93	6.21E-04	2.09E-03	1.63E-03	9.68E-05	3.37E-04	2.58E-04	4.25E-06	2.57E-05	1.51E-05
717	577482.37	4194053.2	6.12E-04	2.06E-03	1.61E-03	9.53E-05	3.32E-04	2.54E-04	4.18E-06	2.53E-05	1.49E-05
718	577489.68	4194058.47	6.01E-04	2.02E-03	1.58E-03	9.37E-05	3.26E-04	2.49E-04	4.11E-06	2.49E-05	1.46E-05
719	577497	4194063.74	5.90E-04	1.99E-03	1.55E-03	9.19E-05	3.20E-04	2.45E-04	4.03E-06	2.44E-05	1.44E-05
720	577504.31	4194069.01	5.78E-04	1.95E-03	1.52E-03	9.00E-05	3.14E-04	2.40E-04	3.95E-06	2.39E-05	1.41E-05
721	577511.63	4194074.28	5.65E-04	1.90E-03	1.48E-03	8.81E-05	3.07E-04	2.34E-04	3.87E-06	2.34E-05	1.38E-05
722	577518.95	4194079.56	5.53E-04	1.86E-03	1.45E-03	8.62E-05	3.00E-04	2.29E-04	3.78E-06	2.29E-05	1.35E-05
723	577526.26	4194084.83	5.41E-04	1.82E-03	1.42E-03	8.42E-05	2.93E-04	2.24E-04	3.70E-06	2.24E-05	1.32E-05
724	577533.58	4194090.1	5.28E-04	1.78E-03	1.39E-03	8.23E-05	2.87E-04	2.19E-04	3.61E-06	2.19E-05	1.29E-05
725	577540.9	4194095.37	5.16E-04	1.74E-03	1.35E-03	8.04E-05	2.80E-04	2.14E-04	3.53E-06	2.14E-05	1.25E-05
726	577548.21	4194100.64	5.04E-04	1.69E-03	1.32E-03	7.85E-05	2.73E-04	2.09E-04	3.44E-06	2.09E-05	1.22E-05
727	577555.53	4194105.91	4.91E-04	1.65E-03	1.29E-03	7.65E-05	2.66E-04	2.04E-04	3.36E-06	2.03E-05	1.19E-05
728	577562.85	4194111.18	4.78E-04	1.61E-03	1.25E-03	7.44E-05	2.59E-04	1.98E-04	3.27E-06	1.98E-05	1.16E-05
729	577571.74	4194125.32	4.72E-04	1.59E-03	1.24E-03	7.36E-05	2.56E-04	1.96E-04	3.23E-06	1.96E-05	1.15E-05
730	577573.32	4194134.2	4.80E-04	1.62E-03	1.26E-03	7.48E-05	2.61E-04	1.99E-04	3.28E-06	1.99E-05	1.17E-05
731	577576.49	4194151.95	4.94E-04	1.66E-03	1.30E-03	7.70E-05	2.68E-04	2.05E-04	3.38E-06	2.05E-05	1.20E-05
732	577579.65	4194169.71	5.07E-04	1.71E-03	1.33E-03	7.90E-05	2.75E-04	2.10E-04	3.47E-06	2.10E-05	1.23E-05
733	577582.81	4194187.46	5.17E-04	1.74E-03	1.36E-03	8.06E-05	2.81E-04	2.14E-04	3.54E-06	2.14E-05	1.26E-05
734	577585.97	4194205.22	5.24E-04	1.76E-03	1.38E-03	8.17E-05	2.84E-04	2.17E-04	3.58E-06	2.17E-05	1.28E-05
735	577592.3	4194240.72	5.22E-04	1.76E-03	1.37E-03	8.13E-05	2.83E-04	2.16E-04	3.57E-06	2.16E-05	1.27E-05
736	577595.46	4194258.48	4.94E-04	1.66E-03	1.30E-03	7.69E-05	2.68E-04	2.05E-04	3.38E-06	2.04E-05	1.20E-05
737	577598.62	4194276.23	4.71E-04	1.59E-03	1.24E-03	7.34E-05	2.56E-04	1.95E-04	3.22E-06	1.95E-05	1.15E-05
738	577601.78	4194293.99	4.49E-04	1.51E-03	1.18E-03	7.00E-05	2.44E-04	1.86E-04	3.07E-06	1.86E-05	1.09E-05
739	577604.95	4194311.74	4.30E-04	1.45E-03	1.13E-03	6.70E-05	2.33E-04	1.78E-04	2.94E-06	1.78E-05	1.05E-05
740	577606.53	4194320.62	4.20E-04	1.41E-03	1.10E-03	6.55E-05	2.28E-04	1.74E-04	2.87E-06	1.74E-05	1.02E-05

741	577608.11	4194329.5	4.11E-04	1.38E-03	1.08E-03	6.40E-05	2.23E-04	1.70E-04	2.81E-06	1.70E-05	9.99E-06
742	577387.25	4193984.69	5.81E-04	1.95E-03	1.52E-03	9.05E-05	3.15E-04	2.41E-04	3.97E-06	2.41E-05	1.41E-05
743	577378.22	4193982.49	5.76E-04	1.94E-03	1.51E-03	8.98E-05	3.13E-04	2.39E-04	3.94E-06	2.39E-05	1.40E-05
744	577369.19	4193980.29	5.70E-04	1.92E-03	1.50E-03	8.89E-05	3.10E-04	2.37E-04	3.90E-06	2.36E-05	1.39E-05
745	577360.15	4193978.09	5.63E-04	1.90E-03	1.48E-03	8.78E-05	3.06E-04	2.34E-04	3.85E-06	2.33E-05	1.37E-05
746	577351.12	4193975.89	5.55E-04	1.87E-03	1.46E-03	8.65E-05	3.01E-04	2.30E-04	3.80E-06	2.30E-05	1.35E-05
747	577342.08	4193973.68	5.46E-04	1.84E-03	1.43E-03	8.51E-05	2.97E-04	2.27E-04	3.74E-06	2.26E-05	1.33E-05
748	577396.89	4193980.21	5.58E-04	1.88E-03	1.46E-03	8.69E-05	3.03E-04	2.31E-04	3.81E-06	2.31E-05	1.36E-05
749	577404.16	4193985.45	5.71E-04	1.92E-03	1.50E-03	8.89E-05	3.10E-04	2.37E-04	3.90E-06	2.36E-05	1.39E-05
750	577418.7	4193995.92	5.92E-04	1.99E-03	1.56E-03	9.23E-05	3.21E-04	2.46E-04	4.05E-06	2.45E-05	1.44E-05
751	577425.97	4194001.16	6.00E-04	2.02E-03	1.57E-03	9.34E-05	3.25E-04	2.49E-04	4.10E-06	2.48E-05	1.46E-05
752	577440.51	4194011.63	6.07E-04	2.04E-03	1.59E-03	9.46E-05	3.29E-04	2.52E-04	4.15E-06	2.51E-05	1.48E-05
753	577455.05	4194022.1	6.05E-04	2.04E-03	1.59E-03	9.43E-05	3.29E-04	2.51E-04	4.14E-06	2.51E-05	1.47E-05
754	577469.59	4194032.58	5.96E-04	2.01E-03	1.56E-03	9.28E-05	3.23E-04	2.47E-04	4.07E-06	2.47E-05	1.45E-05
755	577476.85	4194037.81	5.89E-04	1.98E-03	1.55E-03	9.18E-05	3.20E-04	2.44E-04	4.03E-06	2.44E-05	1.43E-05
756	577491.39	4194048.29	5.72E-04	1.93E-03	1.50E-03	8.92E-05	3.11E-04	2.37E-04	3.91E-06	2.37E-05	1.39E-05
757	577498.66	4194053.52	5.62E-04	1.89E-03	1.48E-03	8.76E-05	3.05E-04	2.33E-04	3.85E-06	2.33E-05	1.37E-05
758	577513.2	4194064	5.41E-04	1.82E-03	1.42E-03	8.42E-05	2.93E-04	2.24E-04	3.70E-06	2.24E-05	1.32E-05
759	577520.47	4194069.23	5.29E-04	1.78E-03	1.39E-03	8.25E-05	2.87E-04	2.19E-04	3.62E-06	2.19E-05	1.29E-05
760	577535.01	4194079.7	5.06E-04	1.70E-03	1.33E-03	7.88E-05	2.75E-04	2.10E-04	3.46E-06	2.10E-05	1.23E-05
761	577549.55	4194090.18	4.83E-04	1.63E-03	1.27E-03	7.53E-05	2.62E-04	2.00E-04	3.31E-06	2.00E-05	1.18E-05
762	577564.09	4194100.65	4.60E-04	1.55E-03	1.21E-03	7.16E-05	2.49E-04	1.91E-04	3.14E-06	1.90E-05	1.12E-05
763	577571.36	4194105.89	4.47E-04	1.51E-03	1.17E-03	6.97E-05	2.43E-04	1.85E-04	3.06E-06	1.85E-05	1.09E-05
764	577580.2	4194119.94	4.43E-04	1.49E-03	1.16E-03	6.90E-05	2.40E-04	1.84E-04	3.03E-06	1.83E-05	1.08E-05
765	577583.34	4194137.58	4.58E-04	1.54E-03	1.20E-03	7.13E-05	2.48E-04	1.90E-04	3.13E-06	1.90E-05	1.11E-05
766	577584.91	4194146.4	4.64E-04	1.56E-03	1.22E-03	7.23E-05	2.52E-04	1.92E-04	3.17E-06	1.92E-05	1.13E-05
767	577588.05	4194164.04	4.75E-04	1.60E-03	1.25E-03	7.41E-05	2.58E-04	1.97E-04	3.25E-06	1.97E-05	1.16E-05
768	577591.19	4194181.68	4.85E-04	1.63E-03	1.27E-03	7.56E-05	2.63E-04	2.01E-04	3.32E-06	2.01E-05	1.18E-05
769	577594.34	4194199.32	4.92E-04	1.66E-03	1.29E-03	7.66E-05	2.67E-04	2.04E-04	3.36E-06	2.04E-05	1.20E-05
770	577595.91	4194208.14	4.94E-04	1.66E-03	1.30E-03	7.70E-05	2.68E-04	2.05E-04	3.38E-06	2.05E-05	1.20E-05
771	577602.19	4194243.42	4.88E-04	1.64E-03	1.28E-03	7.61E-05	2.65E-04	2.02E-04	3.34E-06	2.02E-05	1.19E-05
772	577605.33	4194261.06	4.63E-04	1.56E-03	1.22E-03	7.22E-05	2.52E-04	1.92E-04	3.17E-06	1.92E-05	1.13E-05
773	577606.9	4194269.88	4.53E-04	1.52E-03	1.19E-03	7.06E-05	2.46E-04	1.88E-04	3.10E-06	1.88E-05	1.10E-05
774	577610.05	4194287.53	4.30E-04	1.45E-03	1.13E-03	6.70E-05	2.33E-04	1.78E-04	2.94E-06	1.78E-05	1.05E-05
775	577613.19	4194305.17	4.14E-04	1.39E-03	1.09E-03	6.44E-05	2.24E-04	1.71E-04	2.83E-06	1.71E-05	1.01E-05
776	577614.76	4194313.99	4.05E-04	1.36E-03	1.06E-03	6.31E-05	2.20E-04	1.68E-04	2.77E-06	1.68E-05	9.86E-06
777	577616.33	4194322.81	3.98E-04	1.34E-03	1.04E-03	6.20E-05	2.16E-04	1.65E-04	2.72E-06	1.65E-05	9.67E-06
778	577380.59	4193972.78	5.39E-04	1.81E-03	1.41E-03	8.39E-05	2.92E-04	2.23E-04	3.68E-06	2.23E-05	1.31E-05
779	577371.55	4193970.57	5.33E-04	1.79E-03	1.40E-03	8.30E-05	2.89E-04	2.21E-04	3.64E-06	2.21E-05	1.30E-05
780	577362.52	4193968.37	5.26E-04	1.77E-03	1.38E-03	8.20E-05	2.86E-04	2.18E-04	3.60E-06	2.18E-05	1.28E-05
781	577353.49	4193966.17	5.19E-04	1.75E-03	1.36E-03	8.08E-05	2.81E-04	2.15E-04	3.55E-06	2.15E-05	1.26E-05
782	577344.45	4193963.97	5.11E-04	1.72E-03	1.34E-03	7.96E-05	2.77E-04	2.12E-04	3.49E-06	2.12E-05	1.24E-05
783	577399.49	4193970.67	5.23E-04	1.76E-03	1.37E-03	8.15E-05	2.84E-04	2.17E-04	3.58E-06	2.17E-05	1.27E-05
784	577407	4193976.07	5.36E-04	1.80E-03	1.41E-03	8.35E-05	2.91E-04	2.22E-04	3.67E-06	2.22E-05	1.30E-05
785	577414.5	4193981.48	5.48E-04	1.84E-03	1.44E-03	8.53E-05	2.97E-04	2.27E-04	3.74E-06	2.27E-05	1.33E-05
786	577422.01	4193986.88	5.57E-04	1.87E-03	1.46E-03	8.68E-05	3.02E-04	2.31E-04	3.81E-06	2.31E-05	1.35E-05
787	577429.51	4193992.29	5.64E-04	1.90E-03	1.48E-03	8.79E-05	3.06E-04	2.34E-04	3.86E-06	2.34E-05	1.37E-05
788	577437.01	4193997.69	5.69E-04	1.92E-03	1.50E-03	8.87E-05	3.09E-04	2.36E-04	3.89E-06	2.36E-05	1.38E-05
789	577444.52	4194003.1	5.72E-04	1.93E-03	1.50E-03	8.91E-05	3.10E-04	2.37E-04	3.91E-06	2.37E-05	1.39E-05
790	577452.02	4194008.5	5.72E-04	1.93E-03	1.50E-03	8.92E-05	3.11E-04	2.37E-04	3.91E-06	2.37E-05	1.39E-05
791	577459.53	4194013.91	5.71E-04	1.92E-03	1.50E-03	8.89E-05	3.10E-04	2.37E-04	3.90E-06	2.36E-05	1.39E-05
792	577467.03	4194019.31	5.67E-04	1.91E-03	1.49E-03	8.84E-05	3.08E-04	2.35E-04	3.88E-06	2.35E-05	1.38E-05
793	577474.53	4194024.72	5.62E-04	1.89E-03	1.48E-03	8.76E-05	3.05E-04	2.33E-04	3.84E-06	2.33E-05	1.37E-05
794	577482.04	4194030.12	5.55E-04	1.87E-03	1.46E-03	8.65E-05	3.01E-04	2.30E-04	3.80E-06	2.30E-05	1.35E-05
795	577489.54	4194035.53	5.48E-04	1.84E-03	1.44E-03	8.54E-05	2.97E-04	2.27E-04	3.75E-06	2.27E-05	1.33E-05
796	577497.04	4194040.94	5.40E-04	1.82E-03	1.42E-03	8.41E-05	2.93E-04	2.24E-04	3.69E-06	2.24E-05	1.31E-05
797	577504.55	4194046.34	5.31E-04	1.79E-03	1.39E-03	8.27E-05	2.88E-04	2.20E-04	3.63E-06	2.20E-05	1.29E-05
798	577512.05	4194051.75	5.21E-04	1.75E-03	1.37E-03	8.12E-05	2.83E-04	2.16E-04	3.56E-06	2.16E-05	1.27E-05
799	577519.56	4194057.15	5.10E-04	1.72E-03	1.34E-03	7.95E-05	2.77E-04	2.12E-04	3.49E-06	2.11E-05	1.24E-05
800	577527.06	4194062.56	5.00E-04	1.68E-03	1.31E-03	7.78E-05	2.71E-04	2.07E-04	3.42E-06	2.07E-05	1.22E-05
801	577534.56	4194067.96	4.88E-04	1.64E-03	1.28E-03	7.61E-05	2.65E-04	2.02E-04	3.34E-06	2.02E-05	1.19E-05
802	577542.07	4194073.37	4.77E-04	1.61E-03	1.25E-03	7.43E-05	2.59E-04	1.98E-04	3.26E-06	1.98E-05	1.16E-05

803	577549.57	4194078.77	4.66E-04	1.57E-03	1.22E-03	7.26E-05	2.53E-04	1.93E-04	3.19E-06	1.93E-05	1.13E-05
804	577557.08	4194084.18	4.55E-04	1.53E-03	1.19E-03	7.09E-05	2.47E-04	1.89E-04	3.11E-06	1.88E-05	1.11E-05
805	577564.58	4194089.58	4.44E-04	1.49E-03	1.16E-03	6.91E-05	2.41E-04	1.84E-04	3.03E-06	1.84E-05	1.08E-05
806	577572.08	4194094.99	4.32E-04	1.45E-03	1.13E-03	6.73E-05	2.34E-04	1.79E-04	2.95E-06	1.79E-05	1.05E-05
807	577579.59	4194100.39	4.20E-04	1.41E-03	1.10E-03	6.55E-05	2.28E-04	1.74E-04	2.87E-06	1.74E-05	1.02E-05
808	577588.71	4194114.9	4.16E-04	1.40E-03	1.09E-03	6.48E-05	2.26E-04	1.73E-04	2.85E-06	1.72E-05	1.01E-05
809	577590.33	4194124.01	4.23E-04	1.42E-03	1.11E-03	6.60E-05	2.30E-04	1.76E-04	2.89E-06	1.75E-05	1.03E-05
810	577591.96	4194133.11	4.30E-04	1.45E-03	1.13E-03	6.70E-05	2.33E-04	1.78E-04	2.94E-06	1.78E-05	1.05E-05
811	577593.58	4194142.22	4.36E-04	1.47E-03	1.15E-03	6.80E-05	2.37E-04	1.81E-04	2.98E-06	1.81E-05	1.06E-05
812	577595.2	4194151.32	4.42E-04	1.49E-03	1.16E-03	6.89E-05	2.40E-04	1.83E-04	3.02E-06	1.83E-05	1.08E-05
813	577596.82	4194160.43	4.47E-04	1.51E-03	1.18E-03	6.97E-05	2.43E-04	1.86E-04	3.06E-06	1.85E-05	1.09E-05
814	577598.44	4194169.53	4.52E-04	1.52E-03	1.19E-03	7.05E-05	2.45E-04	1.88E-04	3.09E-06	1.87E-05	1.10E-05
815	577600.06	4194178.64	4.57E-04	1.54E-03	1.20E-03	7.12E-05	2.48E-04	1.89E-04	3.12E-06	1.89E-05	1.11E-05
816	577601.69	4194187.74	4.60E-04	1.55E-03	1.21E-03	7.17E-05	2.50E-04	1.91E-04	3.15E-06	1.91E-05	1.12E-05
817	577603.31	4194196.84	4.63E-04	1.56E-03	1.22E-03	7.22E-05	2.51E-04	1.92E-04	3.17E-06	1.92E-05	1.13E-05
818	577604.93	4194205.95	4.66E-04	1.57E-03	1.22E-03	7.26E-05	2.53E-04	1.93E-04	3.18E-06	1.93E-05	1.13E-05
819	577611.42	4194242.37	4.62E-04	1.55E-03	1.21E-03	7.20E-05	2.51E-04	1.91E-04	3.16E-06	1.91E-05	1.12E-05
820	577613.04	4194251.47	4.50E-04	1.52E-03	1.18E-03	7.01E-05	2.44E-04	1.87E-04	3.08E-06	1.86E-05	1.10E-05
821	577614.66	4194260.58	4.40E-04	1.48E-03	1.15E-03	6.85E-05	2.39E-04	1.82E-04	3.01E-06	1.82E-05	1.07E-05
822	577616.28	4194269.68	4.30E-04	1.45E-03	1.13E-03	6.70E-05	2.33E-04	1.78E-04	2.94E-06	1.78E-05	1.05E-05
823	577617.9	4194278.79	4.21E-04	1.42E-03	1.10E-03	6.55E-05	2.28E-04	1.74E-04	2.88E-06	1.74E-05	1.02E-05
824	577619.52	4194287.89	4.11E-04	1.38E-03	1.08E-03	6.41E-05	2.23E-04	1.70E-04	2.81E-06	1.70E-05	1.00E-05
825	577621.15	4194297	4.05E-04	1.36E-03	1.06E-03	6.30E-05	2.20E-04	1.68E-04	2.77E-06	1.68E-05	9.84E-06
826	577622.77	4194306.1	3.97E-04	1.34E-03	1.04E-03	6.19E-05	2.16E-04	1.65E-04	2.72E-06	1.65E-05	9.66E-06
827	577624.39	4194315.21	3.89E-04	1.31E-03	1.02E-03	6.06E-05	2.11E-04	1.61E-04	2.66E-06	1.61E-05	9.46E-06
828	577626.01	4194324.31	3.81E-04	1.28E-03	1.00E-03	5.94E-05	2.07E-04	1.58E-04	2.61E-06	1.58E-05	9.27E-06
829	577627.63	4194333.42	3.73E-04	1.25E-03	9.78E-04	5.80E-05	2.02E-04	1.54E-04	2.55E-06	1.54E-05	9.06E-06
830	577391.99	4193965.26	5.09E-04	1.71E-03	1.34E-03	7.93E-05	2.76E-04	2.11E-04	3.48E-06	2.11E-05	1.24E-05
831	577382.96	4193963.06	5.04E-04	1.70E-03	1.32E-03	7.86E-05	2.74E-04	2.09E-04	3.45E-06	2.09E-05	1.23E-05
832	577373.92	4193960.86	4.99E-04	1.68E-03	1.31E-03	7.77E-05	2.71E-04	2.07E-04	3.41E-06	2.07E-05	1.21E-05
833	577364.89	4193958.66	4.92E-04	1.66E-03	1.29E-03	7.67E-05	2.67E-04	2.04E-04	3.37E-06	2.04E-05	1.20E-05
834	577355.85	4193956.45	4.86E-04	1.63E-03	1.27E-03	7.56E-05	2.63E-04	2.01E-04	3.32E-06	2.01E-05	1.18E-05
835	577346.82	4193954.25	4.78E-04	1.61E-03	1.26E-03	7.45E-05	2.59E-04	1.98E-04	3.27E-06	1.98E-05	1.16E-05
836	577260.46	4194242.13	2.17E-02	7.29E-02	5.69E-02	3.37E-03	1.18E-02	8.98E-03	1.48E-04	8.97E-04	5.27E-04
837	577262.74	4194232.39	1.77E-02	5.94E-02	4.63E-02	2.75E-03	9.58E-03	7.32E-03	1.21E-04	7.31E-04	4.29E-04
838	577265.02	4194222.66	1.44E-02	4.83E-02	3.77E-02	2.24E-03	7.79E-03	5.96E-03	9.82E-05	5.95E-04	3.49E-04
839	577267.3	4194212.92	1.10E-02	3.69E-02	2.88E-02	1.71E-03	5.95E-03	4.54E-03	7.49E-05	4.54E-04	2.67E-04
840	577269.59	4194203.18	8.39E-03	2.82E-02	2.20E-02	1.31E-03	4.55E-03	3.48E-03	5.74E-05	3.48E-04	2.04E-04
841	577271.87	4194193.45	6.66E-03	2.24E-02	1.75E-02	1.04E-03	3.61E-03	2.76E-03	4.56E-05	2.76E-04	1.62E-04
842	577274.15	4194183.71	5.51E-03	1.85E-02	1.45E-02	8.58E-04	2.99E-03	2.28E-03	3.77E-05	2.28E-04	1.34E-04
843	577280.99	4194154.5	3.36E-03	1.13E-02	8.83E-03	5.24E-04	1.82E-03	1.39E-03	2.30E-05	1.39E-04	8.18E-05
844	577283.27	4194144.77	2.92E-03	9.82E-03	7.66E-03	4.54E-04	1.58E-03	1.21E-03	1.99E-05	1.21E-04	7.10E-05
845	577285.55	4194135.03	2.55E-03	8.58E-03	6.69E-03	3.97E-04	1.38E-03	1.06E-03	1.74E-05	1.06E-04	6.20E-05
846	577295.4	4194127.07	2.31E-03	7.77E-03	6.06E-03	3.60E-04	1.25E-03	9.57E-04	1.58E-05	9.56E-05	5.61E-05
847	577280.26	4194123.52	2.16E-03	7.28E-03	5.68E-03	3.37E-04	1.17E-03	8.97E-04	1.48E-05	8.96E-05	5.26E-05
848	577297.68	4194117.33	2.04E-03	6.86E-03	5.36E-03	3.18E-04	1.11E-03	8.46E-04	1.39E-05	8.45E-05	4.96E-05
849	577282.54	4194113.78	1.92E-03	6.45E-03	5.03E-03	2.99E-04	1.04E-03	7.95E-04	1.31E-05	7.94E-05	4.66E-05
850	577299.96	4194107.59	1.81E-03	6.11E-03	4.76E-03	2.83E-04	9.84E-04	7.52E-04	1.24E-05	7.52E-05	4.41E-05
851	577284.82	4194104.05	1.71E-03	5.76E-03	4.49E-03	2.67E-04	9.28E-04	7.09E-04	1.17E-05	7.09E-05	4.16E-05
852	577302.24	4194097.86	1.62E-03	5.46E-03	4.26E-03	2.53E-04	8.81E-04	6.73E-04	1.11E-05	6.72E-05	3.95E-05
853	577287.1	4194094.31	1.54E-03	5.17E-03	4.04E-03	2.39E-04	8.34E-04	6.37E-04	1.05E-05	6.37E-05	3.74E-05
854	577304.53	4194088.12	1.46E-03	4.91E-03	3.83E-03	2.27E-04	7.91E-04	6.05E-04	9.97E-06	6.04E-05	3.55E-05
855	577289.39	4194084.57	1.39E-03	4.67E-03	3.64E-03	2.16E-04	7.52E-04	5.75E-04	9.48E-06	5.74E-05	3.37E-05
856	577306.81	4194078.38	1.32E-03	4.43E-03	3.46E-03	2.05E-04	7.14E-04	5.46E-04	9.00E-06	5.45E-05	3.20E-05
857	577291.67	4194074.84	1.26E-03	4.23E-03	3.30E-03	1.96E-04	6.81E-04	5.21E-04	8.59E-06	5.20E-05	3.05E-05
858	577309.09	4194068.65	1.19E-03	4.02E-03	3.14E-03	1.86E-04	6.48E-04	4.95E-04	8.17E-06	4.95E-05	2.90E-05
859	577293.95	4194065.1	1.14E-03	3.84E-03	3.00E-03	1.78E-04	6.20E-04	4.74E-04	7.81E-06	4.73E-05	2.78E-05
860	577311.37	4194058.91	1.09E-03	3.66E-03	2.86E-03	1.70E-04	5.90E-04	4.51E-04	7.44E-06	4.51E-05	2.65E-05
861	577296.23	4194055.37	1.04E-03	3.51E-03	2.74E-03	1.62E-04	5.66E-04	4.32E-04	7.13E-06	4.32E-05	2.54E-05
862	577313.65	4194049.18	9.95E-04	3.35E-03	2.61E-03	1.55E-04	5.40E-04	4.12E-04	6.80E-06	4.12E-05	2.42E-05
863	577298.51	4194045.63	9.55E-04	3.21E-03	2.51E-03	1.49E-04	5.18E-04	3.96E-04	6.53E-06	3.96E-05	2.32E-05
864	577315.93	4194039.44	9.12E-04	3.07E-03	2.40E-03	1.42E-04	4.95E-04	3.78E-04	6.24E-06	3.78E-05	2.22E-05

865	577300.79	4194035.89	8.77E-04	2.95E-03	2.30E-03	1.37E-04	4.76E-04	3.64E-04	6.00E-06	3.63E-05	2.13E-05
866	577318.21	4194029.7	8.39E-04	2.82E-03	2.20E-03	1.31E-04	4.55E-04	3.48E-04	5.74E-06	3.48E-05	2.04E-05
867	577303.07	4194026.16	8.08E-04	2.72E-03	2.12E-03	1.26E-04	4.38E-04	3.35E-04	5.53E-06	3.35E-05	1.97E-05
868	577320.49	4194019.97	7.74E-04	2.61E-03	2.03E-03	1.21E-04	4.20E-04	3.21E-04	5.29E-06	3.21E-05	1.88E-05
869	577305.35	4194016.42	7.46E-04	2.51E-03	1.96E-03	1.16E-04	4.05E-04	3.09E-04	5.11E-06	3.09E-05	1.82E-05
870	577322.77	4194010.23	7.16E-04	2.41E-03	1.88E-03	1.12E-04	3.88E-04	2.97E-04	4.90E-06	2.97E-05	1.74E-05
871	577307.63	4194006.68	6.91E-04	2.33E-03	1.82E-03	1.08E-04	3.75E-04	2.87E-04	4.73E-06	2.86E-05	1.68E-05
872	577325.05	4194000.49	6.64E-04	2.23E-03	1.74E-03	1.03E-04	3.60E-04	2.75E-04	4.54E-06	2.75E-05	1.61E-05
873	577309.91	4193996.95	6.42E-04	2.16E-03	1.68E-03	1.00E-04	3.48E-04	2.66E-04	4.39E-06	2.66E-05	1.56E-05
874	577327.33	4193990.76	6.17E-04	2.08E-03	1.62E-03	9.61E-05	3.35E-04	2.56E-04	4.22E-06	2.55E-05	1.50E-05
875	577312.19	4193987.21	5.97E-04	2.01E-03	1.57E-03	9.30E-05	3.24E-04	2.47E-04	4.08E-06	2.47E-05	1.45E-05
876	577329.61	4193981.02	5.74E-04	1.93E-03	1.51E-03	8.95E-05	3.12E-04	2.38E-04	3.93E-06	2.38E-05	1.40E-05
877	577314.47	4193977.47	5.57E-04	1.87E-03	1.46E-03	8.67E-05	3.02E-04	2.31E-04	3.81E-06	2.31E-05	1.35E-05
878	577331.9	4193971.28	5.36E-04	1.80E-03	1.41E-03	8.35E-05	2.91E-04	2.22E-04	3.67E-06	2.22E-05	1.30E-05
879	577316.76	4193967.74	5.20E-04	1.75E-03	1.37E-03	8.11E-05	2.82E-04	2.16E-04	3.56E-06	2.16E-05	1.27E-05
880	577334.18	4193961.55	5.01E-04	1.69E-03	1.32E-03	7.81E-05	2.72E-04	2.08E-04	3.43E-06	2.08E-05	1.22E-05
881	577319.04	4193958	4.87E-04	1.64E-03	1.28E-03	7.59E-05	2.64E-04	2.02E-04	3.33E-06	2.02E-05	1.19E-05
882	577336.46	4193951.81	4.70E-04	1.58E-03	1.23E-03	7.32E-05	2.55E-04	1.95E-04	3.21E-06	1.95E-05	1.14E-05
883	577321.32	4193948.26	4.57E-04	1.54E-03	1.20E-03	7.12E-05	2.48E-04	1.90E-04	3.13E-06	1.89E-05	1.11E-05
884	577232.06	4194246.19	1.15E-02	3.87E-02	3.02E-02	1.79E-03	6.24E-03	4.77E-03	7.86E-05	4.76E-04	2.80E-04
885	577243.28	4194238.33	1.36E-02	4.59E-02	3.58E-02	2.12E-03	7.39E-03	5.65E-03	9.32E-05	5.64E-04	3.31E-04
886	577234.11	4194236.41	1.09E-02	3.67E-02	2.87E-02	1.70E-03	5.92E-03	4.52E-03	7.46E-05	4.52E-04	2.65E-04
887	577245.33	4194228.55	1.20E-02	4.05E-02	3.16E-02	1.87E-03	6.53E-03	4.99E-03	8.23E-05	4.98E-04	2.93E-04
888	577236.17	4194226.62	9.98E-03	3.36E-02	2.62E-02	1.56E-03	5.42E-03	4.14E-03	6.83E-05	4.14E-04	2.43E-04
889	577247.39	4194218.76	1.06E-02	3.58E-02	2.79E-02	1.66E-03	5.77E-03	4.41E-03	7.27E-05	4.40E-04	2.59E-04
890	577238.22	4194216.83	9.13E-03	3.07E-02	2.40E-02	1.42E-03	4.96E-03	3.79E-03	6.24E-05	3.78E-04	2.22E-04
891	577249.44	4194208.97	8.95E-03	3.01E-02	2.35E-02	1.39E-03	4.86E-03	3.71E-03	6.12E-05	3.71E-04	2.18E-04
892	577240.28	4194207.05	7.94E-03	2.67E-02	2.08E-02	1.24E-03	4.31E-03	3.29E-03	5.43E-05	3.29E-04	1.93E-04
893	577260.66	4194201.11	7.69E-03	2.59E-02	2.02E-02	1.20E-03	4.17E-03	3.19E-03	5.26E-05	3.19E-04	1.87E-04
894	577251.5	4194199.19	6.98E-03	2.35E-02	1.83E-02	1.09E-03	3.79E-03	2.89E-03	4.77E-05	2.89E-04	1.70E-04
895	577242.33	4194197.26	6.34E-03	2.13E-02	1.66E-02	9.87E-04	3.44E-03	2.63E-03	4.33E-05	2.62E-04	1.54E-04
896	577262.72	4194191.32	6.17E-03	2.08E-02	1.62E-02	9.61E-04	3.35E-03	2.56E-03	4.22E-05	2.55E-04	1.50E-04
897	577253.55	4194189.4	5.68E-03	1.91E-02	1.49E-02	8.86E-04	3.08E-03	2.36E-03	3.89E-05	2.35E-04	1.38E-04
898	577244.39	4194187.47	5.25E-03	1.77E-02	1.38E-02	8.19E-04	2.85E-03	2.18E-03	3.59E-05	2.18E-04	1.28E-04
899	577264.77	4194181.54	5.14E-03	1.73E-02	1.35E-02	8.01E-04	2.79E-03	2.13E-03	3.51E-05	2.13E-04	1.25E-04
900	577255.61	4194179.61	4.78E-03	1.61E-02	1.26E-02	7.45E-04	2.60E-03	1.98E-03	3.27E-05	1.98E-04	1.16E-04
901	577246.44	4194177.69	4.44E-03	1.49E-02	1.17E-02	6.92E-04	2.41E-03	1.84E-03	3.04E-05	1.84E-04	1.08E-04
902	577270.94	4194152.18	3.18E-03	1.07E-02	8.34E-03	4.95E-04	1.72E-03	1.32E-03	2.17E-05	1.32E-04	7.73E-05
903	577261.78	4194150.25	3.01E-03	1.01E-02	7.90E-03	4.68E-04	1.63E-03	1.25E-03	2.06E-05	1.25E-04	7.31E-05
904	577252.61	4194148.33	2.84E-03	9.54E-03	7.45E-03	4.42E-04	1.54E-03	1.18E-03	1.94E-05	1.17E-04	6.90E-05
905	577273	4194142.39	2.76E-03	9.29E-03	7.25E-03	4.30E-04	1.50E-03	1.14E-03	1.89E-05	1.14E-04	6.72E-05
906	577263.83	4194140.47	2.62E-03	8.82E-03	6.88E-03	4.08E-04	1.42E-03	1.09E-03	1.79E-05	1.09E-04	6.38E-05
907	577254.67	4194138.54	2.48E-03	8.35E-03	6.51E-03	3.86E-04	1.35E-03	1.03E-03	1.70E-05	1.03E-04	6.03E-05
908	577275.05	4194132.61	2.42E-03	8.14E-03	6.35E-03	3.77E-04	1.31E-03	1.00E-03	1.65E-05	1.00E-04	5.88E-05
909	577265.89	4194130.68	2.30E-03	7.75E-03	6.05E-03	3.59E-04	1.25E-03	9.55E-04	1.57E-05	9.54E-05	5.60E-05
910	577256.72	4194128.76	2.19E-03	7.36E-03	5.74E-03	3.41E-04	1.19E-03	9.06E-04	1.49E-05	9.05E-05	5.32E-05
911	577267.94	4194120.89	2.03E-03	6.85E-03	5.34E-03	3.17E-04	1.10E-03	8.44E-04	1.39E-05	8.43E-05	4.95E-05
912	577258.78	4194118.97	1.94E-03	6.52E-03	5.09E-03	3.02E-04	1.05E-03	8.04E-04	1.33E-05	8.03E-05	4.72E-05
913	577270	4194111.11	1.81E-03	6.09E-03	4.75E-03	2.82E-04	9.82E-04	7.50E-04	1.24E-05	7.50E-05	4.40E-05
914	577260.83	4194109.18	1.73E-03	5.82E-03	4.54E-03	2.69E-04	9.39E-04	7.17E-04	1.18E-05	7.16E-05	4.21E-05
915	577272.05	4194101.32	1.62E-03	5.45E-03	4.25E-03	2.52E-04	8.79E-04	6.72E-04	1.11E-05	6.71E-05	3.94E-05
916	577262.89	4194099.4	1.55E-03	5.23E-03	4.08E-03	2.42E-04	8.43E-04	6.44E-04	1.06E-05	6.44E-05	3.78E-05
917	577274.11	4194091.54	1.46E-03	4.91E-03	3.83E-03	2.27E-04	7.92E-04	6.05E-04	9.98E-06	6.05E-05	3.55E-05
918	577264.94	4194089.61	1.40E-03	4.72E-03	3.69E-03	2.19E-04	7.62E-04	5.82E-04	9.60E-06	5.81E-05	3.41E-05
919	577276.16	4194081.75	1.32E-03	4.44E-03	3.47E-03	2.06E-04	7.17E-04	5.47E-04	9.03E-06	5.47E-05	3.21E-05
920	577267	4194079.82	1.27E-03	4.28E-03	3.34E-03	1.98E-04	6.91E-04	5.28E-04	8.70E-06	5.27E-05	3.10E-05
921	577278.22	4194071.96	1.20E-03	4.04E-03	3.15E-03	1.87E-04	6.51E-04	4.97E-04	8.20E-06	4.97E-05	2.92E-05
922	577269.06	4194070.04	1.16E-03	3.90E-03	3.04E-03	1.80E-04	6.29E-04	4.80E-04	7.92E-06	4.80E-05	2.82E-05
923	577280.28	4194062.18	1.09E-03	3.68E-03	2.87E-03	1.70E-04	5.93E-04	4.53E-04	7.48E-06	4.53E-05	2.66E-05
924	577271.11	4194060.25	1.06E-03	3.56E-03	2.78E-03	1.65E-04	5.74E-04	4.39E-04	7.23E-06	4.38E-05	2.57E-05
925	577282.33	4194052.39	1.00E-03	3.36E-03	2.63E-03	1.56E-04	5.42E-04	4.14E-04	6.84E-06	4.14E-05	2.43E-05
926	577273.17	4194050.46	9.69E-04	3.26E-03	2.55E-03	1.51E-04	5.26E-04	4.02E-04	6.63E-06	4.02E-05	2.36E-05

927	577284.39	4194042.6	9.17E-04	3.09E-03	2.41E-03	1.43E-04	4.98E-04	3.80E-04	6.27E-06	3.80E-05	2.23E-05
928	577275.22	4194040.68	8.90E-04	3.00E-03	2.34E-03	1.39E-04	4.83E-04	3.69E-04	6.09E-06	3.69E-05	2.17E-05
929	577286.44	4194032.82	8.43E-04	2.84E-03	2.21E-03	1.31E-04	4.57E-04	3.49E-04	5.76E-06	3.49E-05	2.05E-05
930	577277.28	4194030.89	8.20E-04	2.76E-03	2.15E-03	1.28E-04	4.45E-04	3.40E-04	5.61E-06	3.40E-05	1.99E-05
931	577288.5	4194023.03	7.77E-04	2.62E-03	2.04E-03	1.21E-04	4.22E-04	3.22E-04	5.32E-06	3.22E-05	1.89E-05
932	577279.33	4194021.1	7.57E-04	2.55E-03	1.99E-03	1.18E-04	4.11E-04	3.14E-04	5.18E-06	3.14E-05	1.84E-05
933	577290.55	4194013.24	7.19E-04	2.42E-03	1.89E-03	1.12E-04	3.90E-04	2.98E-04	4.92E-06	2.98E-05	1.75E-05
934	577281.39	4194011.32	7.01E-04	2.36E-03	1.84E-03	1.09E-04	3.81E-04	2.91E-04	4.80E-06	2.91E-05	1.71E-05
935	577292.61	4194003.46	6.67E-04	2.24E-03	1.75E-03	1.04E-04	3.62E-04	2.76E-04	4.56E-06	2.76E-05	1.62E-05
936	577283.44	4194001.53	6.52E-04	2.19E-03	1.71E-03	1.02E-04	3.54E-04	2.70E-04	4.46E-06	2.70E-05	1.58E-05
937	577294.66	4193993.67	6.20E-04	2.09E-03	1.63E-03	9.66E-05	3.36E-04	2.57E-04	4.24E-06	2.57E-05	1.51E-05
938	577285.5	4193991.75	6.07E-04	2.04E-03	1.59E-03	9.45E-05	3.29E-04	2.51E-04	4.15E-06	2.51E-05	1.48E-05
939	577296.72	4193983.88	5.77E-04	1.94E-03	1.52E-03	9.00E-05	3.13E-04	2.39E-04	3.95E-06	2.39E-05	1.40E-05
940	577287.55	4193981.96	5.66E-04	1.90E-03	1.49E-03	8.81E-05	3.07E-04	2.35E-04	3.87E-06	2.34E-05	1.38E-05
941	577298.78	4193974.1	5.39E-04	1.81E-03	1.42E-03	8.40E-05	2.93E-04	2.24E-04	3.69E-06	2.23E-05	1.31E-05
942	577289.61	4193972.17	5.28E-04	1.78E-03	1.39E-03	8.23E-05	2.87E-04	2.19E-04	3.61E-06	2.19E-05	1.29E-05
943	577300.83	4193964.31	5.04E-04	1.70E-03	1.32E-03	7.86E-05	2.74E-04	2.09E-04	3.45E-06	2.09E-05	1.23E-05
944	577291.67	4193962.39	4.95E-04	1.67E-03	1.30E-03	7.71E-05	2.68E-04	2.05E-04	3.38E-06	2.05E-05	1.20E-05
945	577302.89	4193954.52	4.73E-04	1.59E-03	1.24E-03	7.36E-05	2.56E-04	1.96E-04	3.23E-06	1.96E-05	1.15E-05
946	577293.72	4193952.6	4.64E-04	1.56E-03	1.22E-03	7.23E-05	2.52E-04	1.92E-04	3.17E-06	1.92E-05	1.13E-05
947	577304.94	4193944.74	4.44E-04	1.49E-03	1.17E-03	6.91E-05	2.41E-04	1.84E-04	3.03E-06	1.84E-05	1.08E-05
948	577295.78	4193942.81	4.36E-04	1.47E-03	1.15E-03	6.79E-05	2.37E-04	1.81E-04	2.98E-06	1.81E-05	1.06E-05
949	577222.06	4194250.1	8.99E-03	3.02E-02	2.36E-02	1.40E-03	4.88E-03	3.73E-03	6.15E-05	3.72E-04	2.19E-04
950	577213.79	4194244.5	7.49E-03	2.52E-02	1.97E-02	1.17E-03	4.07E-03	3.11E-03	5.12E-05	3.10E-04	1.82E-04
951	577221.04	4194238.62	8.43E-03	2.84E-02	2.21E-02	1.31E-03	4.58E-03	3.50E-03	5.77E-05	3.49E-04	2.05E-04
952	577205.5	4194238.9	6.35E-03	2.14E-02	1.67E-02	9.89E-04	3.44E-03	2.63E-03	4.34E-05	2.63E-04	1.54E-04
953	577212.49	4194233.24	7.08E-03	2.38E-02	1.86E-02	1.10E-03	3.84E-03	2.93E-03	4.84E-05	2.93E-04	1.72E-04
954	577220.15	4194228.05	7.70E-03	2.59E-02	2.02E-02	1.20E-03	4.18E-03	3.19E-03	5.27E-05	3.19E-04	1.87E-04
955	577197.22	4194233.3	5.42E-03	1.82E-02	1.42E-02	8.45E-04	2.94E-03	2.25E-03	3.71E-05	2.25E-04	1.32E-04
956	577204.25	4194227.6	6.01E-03	2.02E-02	1.58E-02	9.37E-04	3.26E-03	2.49E-03	4.11E-05	2.49E-04	1.46E-04
957	577211.65	4194221.61	6.54E-03	2.20E-02	1.72E-02	1.02E-03	3.55E-03	2.71E-03	4.47E-05	2.71E-04	1.59E-04
958	577220.2	4194218.44	7.20E-03	2.42E-02	1.89E-02	1.12E-03	3.91E-03	2.98E-03	4.92E-05	2.98E-04	1.75E-04
959	577229.21	4194217.64	8.12E-03	2.73E-02	2.13E-02	1.26E-03	4.40E-03	3.37E-03	5.55E-05	3.36E-04	1.97E-04
960	577188.93	4194227.71	4.69E-03	1.58E-02	1.23E-02	7.30E-04	2.54E-03	1.94E-03	3.20E-05	1.94E-04	1.14E-04
961	577195.99	4194221.98	5.16E-03	1.74E-02	1.35E-02	8.03E-04	2.80E-03	2.14E-03	3.53E-05	2.14E-04	1.25E-04
962	577203.05	4194216.26	5.57E-03	1.88E-02	1.46E-02	8.68E-04	3.02E-03	2.31E-03	3.81E-05	2.31E-04	1.36E-04
963	577210.11	4194210.54	5.86E-03	1.97E-02	1.54E-02	9.13E-04	3.18E-03	2.43E-03	4.01E-05	2.43E-04	1.43E-04
964	577219.32	4194208.92	6.47E-03	2.18E-02	1.70E-02	1.01E-03	3.51E-03	2.68E-03	4.42E-05	2.68E-04	1.57E-04
965	577228.37	4194208.11	7.16E-03	2.41E-02	1.88E-02	1.12E-03	3.88E-03	2.97E-03	4.89E-05	2.96E-04	1.74E-04
966	577180.64	4194222.11	4.07E-03	1.37E-02	1.07E-02	6.34E-04	2.21E-03	1.69E-03	2.78E-05	1.69E-04	9.90E-05
967	577187.72	4194216.37	4.44E-03	1.50E-02	1.17E-02	6.92E-04	2.41E-03	1.84E-03	3.04E-05	1.84E-04	1.08E-04
968	577195.17	4194210.34	4.76E-03	1.60E-02	1.25E-02	7.42E-04	2.58E-03	1.97E-03	3.26E-05	1.97E-04	1.16E-04
969	577202.25	4194204.6	5.00E-03	1.68E-02	1.31E-02	7.78E-04	2.71E-03	2.07E-03	3.42E-05	2.07E-04	1.22E-04
970	577210.33	4194200.12	5.21E-03	1.75E-02	1.37E-02	8.12E-04	2.83E-03	2.16E-03	3.56E-05	2.16E-04	1.27E-04
971	577219.41	4194199.31	5.62E-03	1.89E-02	1.48E-02	8.75E-04	3.05E-03	2.33E-03	3.84E-05	2.33E-04	1.37E-04
972	577228.48	4194198.5	5.96E-03	2.01E-02	1.57E-02	9.29E-04	3.23E-03	2.47E-03	4.08E-05	2.47E-04	1.45E-04
973	577172.35	4194216.51	3.53E-03	1.19E-02	9.26E-03	5.50E-04	1.91E-03	1.46E-03	2.41E-05	1.46E-04	8.58E-05
974	577179.45	4194210.77	3.83E-03	1.29E-02	1.00E-02	5.96E-04	2.08E-03	1.59E-03	2.62E-05	1.59E-04	9.31E-05
975	577186.54	4194205.02	4.07E-03	1.37E-02	1.07E-02	6.35E-04	2.21E-03	1.69E-03	2.79E-05	1.69E-04	9.91E-05
976	577193.63	4194199.27	4.26E-03	1.43E-02	1.12E-02	6.63E-04	2.31E-03	1.76E-03	2.91E-05	1.76E-04	1.04E-04
977	577200.72	4194193.52	4.27E-03	1.44E-02	1.12E-02	6.66E-04	2.32E-03	1.77E-03	2.92E-05	1.77E-04	1.04E-04
978	577209.45	4194190.59	4.42E-03	1.49E-02	1.16E-02	6.89E-04	2.40E-03	1.83E-03	3.03E-05	1.83E-04	1.08E-04
979	577218.55	4194189.78	4.69E-03	1.58E-02	1.23E-02	7.30E-04	2.54E-03	1.94E-03	3.21E-05	1.94E-04	1.14E-04
980	577227.64	4194188.97	4.92E-03	1.65E-02	1.29E-02	7.66E-04	2.67E-03	2.04E-03	3.36E-05	2.04E-04	1.20E-04
981	577164.07	4194210.92	3.06E-03	1.03E-02	8.02E-03	4.76E-04	1.66E-03	1.27E-03	2.09E-05	1.27E-04	7.43E-05
982	577171.17	4194205.16	3.30E-03	1.11E-02	8.67E-03	5.15E-04	1.79E-03	1.37E-03	2.26E-05	1.37E-04	8.03E-05
983	577178.27	4194199.41	3.51E-03	1.18E-02	9.22E-03	5.47E-04	1.90E-03	1.46E-03	2.40E-05	1.45E-04	8.54E-05
984	577185.37	4194193.65	3.63E-03	1.22E-02	9.54E-03	5.66E-04	1.97E-03	1.51E-03	2.49E-05	1.51E-04	8.84E-05
985	577192.48	4194187.9	3.65E-03	1.23E-02	9.58E-03	5.68E-04	1.98E-03	1.51E-03	2.49E-05	1.51E-04	8.87E-05
986	577199.58	4194182.14	3.58E-03	1.21E-02	9.41E-03	5.58E-04	1.94E-03	1.49E-03	2.45E-05	1.48E-04	8.71E-05
987	577208.58	4194181.07	3.77E-03	1.27E-02	9.91E-03	5.88E-04	2.05E-03	1.56E-03	2.58E-05	1.56E-04	9.18E-05
988	577217.69	4194180.25	3.96E-03	1.33E-02	1.04E-02	6.17E-04	2.15E-03	1.64E-03	2.71E-05	1.64E-04	9.64E-05

989	577226.79	4194179.44	4.13E-03	1.39E-02	1.08E-02	6.43E-04	2.24E-03	1.71E-03	2.82E-05	1.71E-04	1.00E-04
990	577235.9	4194178.63	4.28E-03	1.44E-02	1.12E-02	6.67E-04	2.32E-03	1.78E-03	2.93E-05	1.77E-04	1.04E-04
991	577155.78	4194205.32	2.67E-03	8.99E-03	7.01E-03	4.16E-04	1.45E-03	1.11E-03	1.83E-05	1.11E-04	6.50E-05
992	577162.89	4194199.56	2.86E-03	9.64E-03	7.52E-03	4.46E-04	1.55E-03	1.19E-03	1.96E-05	1.19E-04	6.96E-05
993	577170	4194193.8	3.03E-03	1.02E-02	7.96E-03	4.72E-04	1.64E-03	1.26E-03	2.07E-05	1.25E-04	7.37E-05
994	577177.11	4194188.04	3.12E-03	1.05E-02	8.18E-03	4.86E-04	1.69E-03	1.29E-03	2.13E-05	1.29E-04	7.58E-05
995	577184.22	4194182.27	3.14E-03	1.06E-02	8.25E-03	4.89E-04	1.70E-03	1.30E-03	2.15E-05	1.30E-04	7.64E-05
996	577191.33	4194176.51	3.10E-03	1.04E-02	8.14E-03	4.83E-04	1.68E-03	1.29E-03	2.12E-05	1.28E-04	7.54E-05
997	577199.56	4194172.27	3.10E-03	1.04E-02	8.14E-03	4.83E-04	1.68E-03	1.29E-03	2.12E-05	1.28E-04	7.54E-05
998	577208.67	4194171.46	3.25E-03	1.09E-02	8.54E-03	5.07E-04	1.77E-03	1.35E-03	2.22E-05	1.35E-04	7.91E-05
999	577217.79	4194170.64	3.39E-03	1.14E-02	8.91E-03	5.29E-04	1.84E-03	1.41E-03	2.32E-05	1.41E-04	8.25E-05
1000	577226.91	4194169.83	3.52E-03	1.19E-02	9.25E-03	5.49E-04	1.91E-03	1.46E-03	2.41E-05	1.46E-04	8.57E-05
1001	577147.49	4194199.73	2.34E-03	7.88E-03	6.15E-03	3.65E-04	1.27E-03	9.71E-04	1.60E-05	9.70E-05	5.70E-05
1002	577154.61	4194193.96	2.50E-03	8.41E-03	6.57E-03	3.90E-04	1.36E-03	1.04E-03	1.71E-05	1.04E-04	6.08E-05
1003	577161.73	4194188.19	2.62E-03	8.83E-03	6.89E-03	4.09E-04	1.42E-03	1.09E-03	1.79E-05	1.09E-04	6.38E-05
1004	577168.84	4194182.43	2.70E-03	9.08E-03	7.08E-03	4.20E-04	1.46E-03	1.12E-03	1.84E-05	1.12E-04	6.56E-05
1005	577175.96	4194176.66	2.73E-03	9.18E-03	7.16E-03	4.25E-04	1.48E-03	1.13E-03	1.87E-05	1.13E-04	6.64E-05
1006	577183.08	4194170.89	2.71E-03	9.12E-03	7.12E-03	4.22E-04	1.47E-03	1.12E-03	1.85E-05	1.12E-04	6.59E-05
1007	577190.2	4194165.12	2.64E-03	8.90E-03	6.94E-03	4.12E-04	1.43E-03	1.10E-03	1.81E-05	1.10E-04	6.43E-05
1008	577139.2	4194194.13	2.06E-03	6.93E-03	5.41E-03	3.21E-04	1.12E-03	8.54E-04	1.41E-05	8.53E-05	5.01E-05
1009	577146.32	4194188.36	2.19E-03	7.38E-03	5.75E-03	3.41E-04	1.19E-03	9.09E-04	1.50E-05	9.08E-05	5.33E-05
1010	577153.45	4194182.59	2.29E-03	7.70E-03	6.01E-03	3.57E-04	1.24E-03	9.49E-04	1.57E-05	9.48E-05	5.57E-05
1011	577160.57	4194176.82	2.35E-03	7.92E-03	6.18E-03	3.67E-04	1.28E-03	9.75E-04	1.61E-05	9.75E-05	5.72E-05
1012	577167.69	4194171.05	2.39E-03	8.03E-03	6.27E-03	3.72E-04	1.30E-03	9.90E-04	1.63E-05	9.89E-05	5.81E-05
1013	577174.82	4194165.27	2.39E-03	8.03E-03	6.26E-03	3.72E-04	1.29E-03	9.89E-04	1.63E-05	9.88E-05	5.80E-05
1014	577130.91	4194188.54	1.82E-03	6.13E-03	4.78E-03	2.84E-04	9.88E-04	7.55E-04	1.25E-05	7.54E-05	4.43E-05
1015	577137.99	4194182.81	1.93E-03	6.49E-03	5.06E-03	3.00E-04	1.05E-03	7.99E-04	1.32E-05	7.98E-05	4.69E-05
1016	577145.07	4194177.07	2.01E-03	6.76E-03	5.27E-03	3.13E-04	1.09E-03	8.33E-04	1.37E-05	8.32E-05	4.89E-05
1017	577152.15	4194171.33	2.07E-03	6.96E-03	5.43E-03	3.22E-04	1.12E-03	8.58E-04	1.41E-05	8.57E-05	5.03E-05
1018	577159.23	4194165.6	2.10E-03	7.08E-03	5.52E-03	3.28E-04	1.14E-03	8.72E-04	1.44E-05	8.71E-05	5.11E-05
1019	577166.3	4194159.86	2.11E-03	7.10E-03	5.54E-03	3.29E-04	1.15E-03	8.75E-04	1.44E-05	8.74E-05	5.14E-05
1020	577216.46	4194141.95	2.26E-03	7.62E-03	5.94E-03	3.53E-04	1.23E-03	9.38E-04	1.55E-05	9.37E-05	5.50E-05
1021	577225.53	4194141.14	2.32E-03	7.82E-03	6.10E-03	3.62E-04	1.26E-03	9.64E-04	1.59E-05	9.63E-05	5.65E-05
1022	577234.61	4194140.33	2.38E-03	8.00E-03	6.24E-03	3.70E-04	1.29E-03	9.86E-04	1.63E-05	9.85E-05	5.78E-05
1023	577243.68	4194139.52	2.43E-03	8.17E-03	6.37E-03	3.78E-04	1.32E-03	1.01E-03	1.66E-05	1.01E-04	5.90E-05
1024	577122.62	4194182.95	1.62E-03	5.44E-03	4.24E-03	2.52E-04	8.77E-04	6.70E-04	1.11E-05	6.69E-05	3.93E-05
1025	577129.71	4194177.2	1.70E-03	5.73E-03	4.47E-03	2.65E-04	9.24E-04	7.06E-04	1.16E-05	7.06E-05	4.14E-05
1026	577136.79	4194171.46	1.78E-03	5.98E-03	4.67E-03	2.77E-04	9.64E-04	7.37E-04	1.22E-05	7.36E-05	4.32E-05
1027	577143.88	4194165.72	1.83E-03	6.16E-03	4.81E-03	2.85E-04	9.93E-04	7.59E-04	1.25E-05	7.58E-05	4.45E-05
1028	577150.97	4194159.98	1.86E-03	6.27E-03	4.89E-03	2.90E-04	1.01E-03	7.73E-04	1.27E-05	7.72E-05	4.53E-05
1029	577179.31	4194137.01	1.80E-03	6.06E-03	4.73E-03	2.80E-04	9.77E-04	7.46E-04	1.23E-05	7.46E-05	4.38E-05
1030	577188.35	4194134.86	1.84E-03	6.18E-03	4.82E-03	2.86E-04	9.96E-04	7.61E-04	1.26E-05	7.61E-05	4.47E-05
1031	577197.43	4194134.05	1.89E-03	6.38E-03	4.97E-03	2.95E-04	1.03E-03	7.85E-04	1.30E-05	7.85E-05	4.61E-05
1032	577206.52	4194133.24	1.95E-03	6.56E-03	5.12E-03	3.04E-04	1.06E-03	8.08E-04	1.33E-05	8.08E-05	4.74E-05
1033	577215.6	4194132.42	2.00E-03	6.73E-03	5.25E-03	3.12E-04	1.09E-03	8.30E-04	1.37E-05	8.29E-05	4.87E-05
1034	577224.69	4194131.61	2.05E-03	6.90E-03	5.38E-03	3.19E-04	1.11E-03	8.50E-04	1.40E-05	8.49E-05	4.99E-05
1035	577233.77	4194130.8	2.09E-03	7.04E-03	5.49E-03	3.26E-04	1.14E-03	8.67E-04	1.43E-05	8.67E-05	5.09E-05
1036	577242.86	4194129.99	2.13E-03	7.17E-03	5.60E-03	3.32E-04	1.16E-03	8.84E-04	1.46E-05	8.83E-05	5.19E-05
1037	577114.33	4194177.35	1.44E-03	4.84E-03	3.78E-03	2.24E-04	7.81E-04	5.97E-04	9.84E-06	5.96E-05	3.50E-05
1038	577121.43	4194171.6	1.52E-03	5.10E-03	3.98E-03	2.36E-04	8.22E-04	6.28E-04	1.04E-05	6.28E-05	3.69E-05
1039	577128.52	4194165.86	1.58E-03	5.32E-03	4.15E-03	2.46E-04	8.58E-04	6.55E-04	1.08E-05	6.55E-05	3.84E-05
1040	577135.61	4194160.11	1.63E-03	5.48E-03	4.28E-03	2.54E-04	8.84E-04	6.76E-04	1.11E-05	6.75E-05	3.96E-05
1041	577142.7	4194154.36	1.66E-03	5.59E-03	4.36E-03	2.59E-04	9.02E-04	6.89E-04	1.14E-05	6.88E-05	4.04E-05
1042	577171.07	4194131.37	1.63E-03	5.48E-03	4.27E-03	2.54E-04	8.83E-04	6.75E-04	1.11E-05	6.74E-05	3.96E-05
1043	577178.86	4194126.1	1.60E-03	5.39E-03	4.20E-03	2.49E-04	8.68E-04	6.64E-04	1.09E-05	6.63E-05	3.89E-05
1044	577187.95	4194125.29	1.65E-03	5.55E-03	4.33E-03	2.57E-04	8.96E-04	6.84E-04	1.13E-05	6.84E-05	4.01E-05
1045	577197.04	4194124.48	1.70E-03	5.71E-03	4.46E-03	2.64E-04	9.21E-04	7.03E-04	1.16E-05	7.03E-05	4.13E-05
1046	577206.13	4194123.67	1.74E-03	5.86E-03	4.57E-03	2.71E-04	9.44E-04	7.21E-04	1.19E-05	7.21E-05	4.23E-05
1047	577215.23	4194122.86	1.78E-03	5.99E-03	4.68E-03	2.77E-04	9.66E-04	7.38E-04	1.22E-05	7.38E-05	4.33E-05
1048	577224.32	4194122.04	1.82E-03	6.12E-03	4.78E-03	2.83E-04	9.87E-04	7.54E-04	1.24E-05	7.54E-05	4.43E-05
1049	577233.41	4194121.23	1.85E-03	6.24E-03	4.87E-03	2.89E-04	1.01E-03	7.69E-04	1.27E-05	7.68E-05	4.51E-05
1050	577242.51	4194120.42	1.89E-03	6.35E-03	4.95E-03	2.94E-04	1.02E-03	7.82E-04	1.29E-05	7.81E-05	4.59E-05

1051	577106.05	4194171.76	1.29E-03	4.34E-03	3.39E-03	2.01E-04	7.00E-04	5.35E-04	8.82E-06	5.34E-05	3.14E-05
1052	577113.14	4194166	1.36E-03	4.56E-03	3.56E-03	2.11E-04	7.36E-04	5.62E-04	9.27E-06	5.62E-05	3.30E-05
1053	577120.24	4194160.25	1.41E-03	4.75E-03	3.71E-03	2.20E-04	7.67E-04	5.86E-04	9.66E-06	5.85E-05	3.44E-05
1054	577127.34	4194154.5	1.46E-03	4.90E-03	3.83E-03	2.27E-04	7.91E-04	6.04E-04	9.97E-06	6.04E-05	3.55E-05
1055	577155.73	4194131.49	1.50E-03	5.04E-03	3.93E-03	2.33E-04	8.13E-04	6.21E-04	1.02E-05	6.20E-05	3.64E-05
1056	577162.83	4194125.74	1.48E-03	4.97E-03	3.87E-03	2.30E-04	8.01E-04	6.12E-04	1.01E-05	6.11E-05	3.59E-05
1057	577169.93	4194119.99	1.44E-03	4.86E-03	3.79E-03	2.25E-04	7.84E-04	5.99E-04	9.88E-06	5.98E-05	3.51E-05
1058	577178.45	4194116.53	1.45E-03	4.87E-03	3.80E-03	2.26E-04	7.86E-04	6.00E-04	9.90E-06	6.00E-05	3.52E-05
1059	577187.55	4194115.72	1.49E-03	5.01E-03	3.91E-03	2.32E-04	8.08E-04	6.17E-04	1.02E-05	6.17E-05	3.62E-05
1060	577196.65	4194114.91	1.53E-03	5.14E-03	4.01E-03	2.38E-04	8.28E-04	6.33E-04	1.04E-05	6.32E-05	3.71E-05
1061	577205.75	4194114.1	1.56E-03	5.25E-03	4.10E-03	2.43E-04	8.47E-04	6.47E-04	1.07E-05	6.46E-05	3.80E-05
1062	577214.85	4194113.29	1.59E-03	5.36E-03	4.18E-03	2.48E-04	8.65E-04	6.61E-04	1.09E-05	6.60E-05	3.88E-05
1063	577223.95	4194112.47	1.62E-03	5.47E-03	4.26E-03	2.53E-04	8.81E-04	6.73E-04	1.11E-05	6.73E-05	3.95E-05
1064	577233.05	4194111.66	1.65E-03	5.56E-03	4.34E-03	2.58E-04	8.97E-04	6.85E-04	1.13E-05	6.85E-05	4.02E-05
1065	577242.15	4194110.85	1.68E-03	5.65E-03	4.41E-03	2.62E-04	9.12E-04	6.97E-04	1.15E-05	6.96E-05	4.09E-05
1066	577251.25	4194110.04	1.70E-03	5.74E-03	4.48E-03	2.66E-04	9.25E-04	7.07E-04	1.17E-05	7.06E-05	4.15E-05
1067	577097.76	4194166.16	1.16E-03	3.91E-03	3.05E-03	1.81E-04	6.30E-04	4.81E-04	7.94E-06	4.81E-05	2.82E-05
1068	577104.86	4194160.41	1.22E-03	4.10E-03	3.20E-03	1.90E-04	6.61E-04	5.05E-04	8.33E-06	5.05E-05	2.96E-05
1069	577111.96	4194154.65	1.27E-03	4.27E-03	3.33E-03	1.98E-04	6.89E-04	5.26E-04	8.68E-06	5.26E-05	3.09E-05
1070	577119.07	4194148.89	1.31E-03	4.41E-03	3.44E-03	2.04E-04	7.11E-04	5.43E-04	8.96E-06	5.43E-05	3.19E-05
1071	577147.48	4194125.87	1.36E-03	4.57E-03	3.56E-03	2.11E-04	7.37E-04	5.63E-04	9.28E-06	5.62E-05	3.30E-05
1072	577154.58	4194120.11	1.34E-03	4.52E-03	3.52E-03	2.09E-04	7.28E-04	5.56E-04	9.18E-06	5.56E-05	3.26E-05
1073	577161.68	4194114.36	1.32E-03	4.44E-03	3.46E-03	2.05E-04	7.15E-04	5.46E-04	9.01E-06	5.46E-05	3.21E-05
1074	577168.79	4194108.6	1.29E-03	4.33E-03	3.38E-03	2.01E-04	6.99E-04	5.34E-04	8.81E-06	5.33E-05	3.13E-05
1075	577178.06	4194106.97	1.31E-03	4.42E-03	3.45E-03	2.05E-04	7.13E-04	5.45E-04	8.99E-06	5.44E-05	3.20E-05
1076	577187.16	4194106.15	1.35E-03	4.54E-03	3.54E-03	2.10E-04	7.31E-04	5.59E-04	9.22E-06	5.58E-05	3.28E-05
1077	577196.27	4194105.34	1.38E-03	4.64E-03	3.62E-03	2.15E-04	7.48E-04	5.71E-04	9.43E-06	5.71E-05	3.35E-05
1078	577205.38	4194104.53	1.41E-03	4.73E-03	3.69E-03	2.19E-04	7.63E-04	5.83E-04	9.62E-06	5.83E-05	3.42E-05
1079	577214.48	4194103.72	1.43E-03	4.82E-03	3.76E-03	2.23E-04	7.78E-04	5.94E-04	9.80E-06	5.94E-05	3.49E-05
1080	577223.59	4194102.9	1.46E-03	4.91E-03	3.83E-03	2.27E-04	7.91E-04	6.05E-04	9.97E-06	6.04E-05	3.55E-05
1081	577232.69	4194102.09	1.48E-03	4.99E-03	3.89E-03	2.31E-04	8.05E-04	6.15E-04	1.01E-05	6.14E-05	3.61E-05
1082	577241.8	4194101.28	1.51E-03	5.07E-03	3.96E-03	2.35E-04	8.17E-04	6.25E-04	1.03E-05	6.24E-05	3.66E-05
1083	577250.91	4194100.47	1.53E-03	5.14E-03	4.01E-03	2.38E-04	8.29E-04	6.33E-04	1.04E-05	6.33E-05	3.72E-05
1084	577089.47	4194160.57	1.05E-03	3.53E-03	2.76E-03	1.64E-04	5.70E-04	4.35E-04	7.18E-06	4.35E-05	2.55E-05
1085	577096.58	4194154.81	1.10E-03	3.71E-03	2.89E-03	1.72E-04	5.97E-04	4.56E-04	7.53E-06	4.56E-05	2.68E-05
1086	577103.68	4194149.05	1.15E-03	3.86E-03	3.01E-03	1.78E-04	6.22E-04	4.75E-04	7.83E-06	4.75E-05	2.79E-05
1087	577132.11	4194126.01	1.24E-03	4.16E-03	3.25E-03	1.93E-04	6.71E-04	5.13E-04	8.46E-06	5.12E-05	3.01E-05
1088	577139.22	4194120.25	1.23E-03	4.15E-03	3.24E-03	1.92E-04	6.70E-04	5.12E-04	8.44E-06	5.11E-05	3.00E-05
1089	577146.33	4194114.49	1.22E-03	4.12E-03	3.21E-03	1.91E-04	6.64E-04	5.07E-04	8.37E-06	5.07E-05	2.98E-05
1090	577153.44	4194108.73	1.21E-03	4.06E-03	3.17E-03	1.88E-04	6.54E-04	5.00E-04	8.24E-06	4.99E-05	2.93E-05
1091	577160.54	4194102.97	1.18E-03	3.98E-03	3.10E-03	1.84E-04	6.41E-04	4.90E-04	8.08E-06	4.89E-05	2.87E-05
1092	577168.55	4194098.21	1.17E-03	3.93E-03	3.07E-03	1.82E-04	6.34E-04	4.84E-04	7.98E-06	4.84E-05	2.84E-05
1093	577177.66	4194097.4	1.20E-03	4.03E-03	3.14E-03	1.86E-04	6.49E-04	4.96E-04	8.18E-06	4.96E-05	2.91E-05
1094	577186.77	4194096.58	1.22E-03	4.12E-03	3.21E-03	1.91E-04	6.64E-04	5.07E-04	8.37E-06	5.07E-05	2.98E-05
1095	577195.89	4194095.77	1.25E-03	4.20E-03	3.28E-03	1.95E-04	6.78E-04	5.18E-04	8.54E-06	5.17E-05	3.04E-05
1096	577205	4194094.96	1.27E-03	4.28E-03	3.34E-03	1.98E-04	6.90E-04	5.27E-04	8.70E-06	5.27E-05	3.09E-05
1097	577214.11	4194094.15	1.30E-03	4.36E-03	3.40E-03	2.02E-04	7.03E-04	5.37E-04	8.86E-06	5.36E-05	3.15E-05
1098	577223.22	4194093.33	1.32E-03	4.43E-03	3.46E-03	2.05E-04	7.15E-04	5.46E-04	9.01E-06	5.46E-05	3.20E-05
1099	577232.33	4194092.52	1.34E-03	4.50E-03	3.51E-03	2.09E-04	7.26E-04	5.55E-04	9.15E-06	5.54E-05	3.26E-05
1100	577241.45	4194091.71	1.36E-03	4.57E-03	3.57E-03	2.12E-04	7.37E-04	5.63E-04	9.29E-06	5.63E-05	3.30E-05
1101	577250.56	4194090.89	1.38E-03	4.63E-03	3.61E-03	2.14E-04	7.47E-04	5.71E-04	9.41E-06	5.70E-05	3.35E-05
1102	577081.18	4194154.97	9.54E-04	3.21E-03	2.50E-03	1.49E-04	5.17E-04	3.95E-04	6.52E-06	3.95E-05	2.32E-05
1103	577088.29	4194149.21	9.99E-04	3.36E-03	2.62E-03	1.56E-04	5.42E-04	4.14E-04	6.83E-06	4.14E-05	2.43E-05
1104	577095.4	4194143.45	1.04E-03	3.50E-03	2.73E-03	1.62E-04	5.64E-04	4.31E-04	7.10E-06	4.30E-05	2.53E-05
1105	577123.85	4194120.4	1.13E-03	3.79E-03	2.96E-03	1.75E-04	6.11E-04	4.67E-04	7.70E-06	4.66E-05	2.74E-05
1106	577130.96	4194114.63	1.13E-03	3.79E-03	2.96E-03	1.75E-04	6.11E-04	4.67E-04	7.70E-06	4.67E-05	2.74E-05
1107	577138.07	4194108.87	1.12E-03	3.77E-03	2.94E-03	1.74E-04	6.07E-04	4.64E-04	7.65E-06	4.63E-05	2.72E-05
1108	577145.18	4194103.11	1.11E-03	3.72E-03	2.90E-03	1.72E-04	6.00E-04	4.58E-04	7.56E-06	4.58E-05	2.69E-05
1109	577152.29	4194097.35	1.09E-03	3.66E-03	2.85E-03	1.69E-04	5.90E-04	4.51E-04	7.43E-06	4.50E-05	2.64E-05
1110	577159.4	4194091.58	1.06E-03	3.58E-03	2.79E-03	1.66E-04	5.77E-04	4.41E-04	7.28E-06	4.41E-05	2.59E-05
1111	577168.16	4194088.64	1.07E-03	3.60E-03	2.81E-03	1.67E-04	5.80E-04	4.43E-04	7.31E-06	4.43E-05	2.60E-05
1112	577177.27	4194087.83	1.09E-03	3.68E-03	2.87E-03	1.70E-04	5.93E-04	4.53E-04	7.47E-06	4.53E-05	2.66E-05

1113	577186.39	4194087.02	1.11E-03	3.75E-03	2.93E-03	1.74E-04	6.05E-04	4.62E-04	7.62E-06	4.62E-05	2.71E-05
1114	577195.51	4194086.2	1.14E-03	3.82E-03	2.98E-03	1.77E-04	6.16E-04	4.71E-04	7.76E-06	4.70E-05	2.76E-05
1115	577204.62	4194085.39	1.16E-03	3.89E-03	3.03E-03	1.80E-04	6.27E-04	4.79E-04	7.90E-06	4.79E-05	2.81E-05
1116	577213.74	4194084.58	1.18E-03	3.96E-03	3.09E-03	1.83E-04	6.38E-04	4.87E-04	8.04E-06	4.87E-05	2.86E-05
1117	577222.86	4194083.76	1.19E-03	4.02E-03	3.14E-03	1.86E-04	6.48E-04	4.95E-04	8.17E-06	4.95E-05	2.91E-05
1118	577231.97	4194082.95	1.21E-03	4.08E-03	3.19E-03	1.89E-04	6.58E-04	5.03E-04	8.30E-06	5.03E-05	2.95E-05
1119	577241.09	4194082.14	1.23E-03	4.14E-03	3.23E-03	1.92E-04	6.68E-04	5.10E-04	8.42E-06	5.10E-05	2.99E-05
1120	577250.21	4194081.32	1.25E-03	4.19E-03	3.27E-03	1.94E-04	6.76E-04	5.17E-04	8.52E-06	5.16E-05	3.03E-05
1121	577072.89	4194149.38	8.70E-04	2.93E-03	2.28E-03	1.36E-04	4.72E-04	3.61E-04	5.95E-06	3.60E-05	2.12E-05
1122	577080.01	4194143.61	9.09E-04	3.06E-03	2.39E-03	1.42E-04	4.93E-04	3.77E-04	6.22E-06	3.77E-05	2.21E-05
1123	577108.47	4194120.55	1.02E-03	3.42E-03	2.67E-03	1.59E-04	5.52E-04	4.22E-04	6.96E-06	4.22E-05	2.48E-05
1124	577115.58	4194114.78	1.03E-03	3.46E-03	2.70E-03	1.60E-04	5.58E-04	4.26E-04	7.03E-06	4.26E-05	2.50E-05
1125	577122.7	4194109.02	1.03E-03	3.47E-03	2.71E-03	1.61E-04	5.59E-04	4.27E-04	7.05E-06	4.27E-05	2.51E-05
1126	577129.81	4194103.25	1.03E-03	3.46E-03	2.70E-03	1.60E-04	5.57E-04	4.26E-04	7.02E-06	4.25E-05	2.50E-05
1127	577136.92	4194097.49	1.02E-03	3.42E-03	2.67E-03	1.58E-04	5.52E-04	4.22E-04	6.95E-06	4.21E-05	2.47E-05
1128	577144.04	4194091.72	1.00E-03	3.37E-03	2.63E-03	1.56E-04	5.44E-04	4.16E-04	6.85E-06	4.15E-05	2.44E-05
1129	577151.15	4194085.96	9.83E-04	3.31E-03	2.58E-03	1.53E-04	5.34E-04	4.08E-04	6.73E-06	4.07E-05	2.39E-05
1130	577158.27	4194080.19	9.61E-04	3.23E-03	2.52E-03	1.50E-04	5.22E-04	3.98E-04	6.57E-06	3.98E-05	2.34E-05
1131	577167.28	4194079.12	9.80E-04	3.30E-03	2.57E-03	1.53E-04	5.32E-04	4.06E-04	6.70E-06	4.06E-05	2.38E-05
1132	577176.4	4194078.3	1.00E-03	3.36E-03	2.63E-03	1.56E-04	5.43E-04	4.14E-04	6.84E-06	4.14E-05	2.43E-05
1133	577185.53	4194077.49	1.02E-03	3.43E-03	2.67E-03	1.59E-04	5.52E-04	4.22E-04	6.96E-06	4.22E-05	2.48E-05
1134	577194.65	4194076.68	1.03E-03	3.48E-03	2.72E-03	1.61E-04	5.62E-04	4.29E-04	7.08E-06	4.29E-05	2.52E-05
1135	577203.77	4194075.86	1.05E-03	3.54E-03	2.76E-03	1.64E-04	5.71E-04	4.36E-04	7.20E-06	4.36E-05	2.56E-05
1136	577212.89	4194075.05	1.07E-03	3.60E-03	2.81E-03	1.67E-04	5.80E-04	4.43E-04	7.31E-06	4.43E-05	2.60E-05
1137	577222.01	4194074.23	1.09E-03	3.66E-03	2.85E-03	1.69E-04	5.90E-04	4.51E-04	7.43E-06	4.50E-05	2.64E-05
1138	577231.13	4194073.42	1.10E-03	3.71E-03	2.90E-03	1.72E-04	5.98E-04	4.57E-04	7.54E-06	4.57E-05	2.68E-05
1139	577240.25	4194072.61	1.12E-03	3.76E-03	2.94E-03	1.74E-04	6.07E-04	4.64E-04	7.65E-06	4.63E-05	2.72E-05
1140	577249.37	4194071.79	1.13E-03	3.81E-03	2.97E-03	1.76E-04	6.14E-04	4.69E-04	7.74E-06	4.69E-05	2.75E-05
1141	577258.49	4194070.98	1.15E-03	3.85E-03	3.01E-03	1.78E-04	6.21E-04	4.75E-04	7.83E-06	4.74E-05	2.79E-05
1142	577064.6	4194143.78	7.96E-04	2.68E-03	2.09E-03	1.24E-04	4.32E-04	3.30E-04	5.44E-06	3.30E-05	1.94E-05
1143	577093.08	4194120.71	9.14E-04	3.08E-03	2.40E-03	1.42E-04	4.96E-04	3.79E-04	6.25E-06	3.79E-05	2.22E-05
1144	577100.19	4194114.94	9.31E-04	3.13E-03	2.44E-03	1.45E-04	5.05E-04	3.86E-04	6.36E-06	3.85E-05	2.26E-05
1145	577107.31	4194109.17	9.41E-04	3.17E-03	2.47E-03	1.47E-04	5.11E-04	3.90E-04	6.44E-06	3.90E-05	2.29E-05
1146	577114.43	4194103.41	9.46E-04	3.18E-03	2.48E-03	1.47E-04	5.13E-04	3.92E-04	6.47E-06	3.92E-05	2.30E-05
1147	577121.55	4194097.64	9.45E-04	3.18E-03	2.48E-03	1.47E-04	5.13E-04	3.92E-04	6.46E-06	3.91E-05	2.30E-05
1148	577128.66	4194091.87	9.38E-04	3.16E-03	2.46E-03	1.46E-04	5.09E-04	3.89E-04	6.41E-06	3.88E-05	2.28E-05
1149	577135.78	4194086.1	9.26E-04	3.12E-03	2.43E-03	1.44E-04	5.03E-04	3.84E-04	6.33E-06	3.84E-05	2.25E-05
1150	577142.9	4194080.34	9.11E-04	3.07E-03	2.39E-03	1.42E-04	4.94E-04	3.78E-04	6.23E-06	3.77E-05	2.22E-05
1151	577150.02	4194074.57	8.92E-04	3.00E-03	2.34E-03	1.39E-04	4.84E-04	3.70E-04	6.10E-06	3.70E-05	2.17E-05
1152	577158.25	4194070.32	8.85E-04	2.98E-03	2.32E-03	1.38E-04	4.80E-04	3.67E-04	6.05E-06	3.67E-05	2.15E-05
1153	577167.37	4194069.51	9.03E-04	3.04E-03	2.37E-03	1.41E-04	4.90E-04	3.74E-04	6.17E-06	3.74E-05	2.20E-05
1154	577176.5	4194068.69	9.19E-04	3.09E-03	2.41E-03	1.43E-04	4.99E-04	3.81E-04	6.29E-06	3.81E-05	2.24E-05
1155	577185.62	4194067.88	9.34E-04	3.14E-03	2.45E-03	1.46E-04	5.07E-04	3.87E-04	6.39E-06	3.87E-05	2.27E-05
1156	577194.75	4194067.06	9.49E-04	3.19E-03	2.49E-03	1.48E-04	5.15E-04	3.93E-04	6.49E-06	3.93E-05	2.31E-05
1157	577203.87	4194066.25	9.64E-04	3.24E-03	2.53E-03	1.50E-04	5.23E-04	4.00E-04	6.59E-06	3.99E-05	2.34E-05
1158	577213	4194065.44	9.78E-04	3.29E-03	2.57E-03	1.52E-04	5.31E-04	4.06E-04	6.69E-06	4.05E-05	2.38E-05
1159	577222.12	4194064.62	9.93E-04	3.34E-03	2.61E-03	1.55E-04	5.39E-04	4.12E-04	6.79E-06	4.11E-05	2.42E-05
1160	577231.25	4194063.81	1.01E-03	3.39E-03	2.64E-03	1.57E-04	5.47E-04	4.18E-04	6.89E-06	4.17E-05	2.45E-05
1161	577240.37	4194062.99	1.02E-03	3.44E-03	2.68E-03	1.59E-04	5.54E-04	4.23E-04	6.98E-06	4.23E-05	2.48E-05
1162	577249.5	4194062.18	1.03E-03	3.48E-03	2.71E-03	1.61E-04	5.61E-04	4.28E-04	7.07E-06	4.28E-05	2.51E-05
1163	577258.62	4194061.36	1.04E-03	3.52E-03	2.74E-03	1.63E-04	5.67E-04	4.33E-04	7.15E-06	4.33E-05	2.54E-05
1164	577056.32	4194138.19	7.31E-04	2.46E-03	1.92E-03	1.14E-04	3.97E-04	3.03E-04	5.00E-06	3.03E-05	1.78E-05
1165	577084.8	4194115.11	8.38E-04	2.82E-03	2.20E-03	1.31E-04	4.55E-04	3.47E-04	5.73E-06	3.47E-05	2.04E-05
1166	577091.92	4194109.34	8.54E-04	2.87E-03	2.24E-03	1.33E-04	4.63E-04	3.54E-04	5.84E-06	3.54E-05	2.08E-05
1167	577099.04	4194103.57	8.65E-04	2.91E-03	2.27E-03	1.35E-04	4.69E-04	3.58E-04	5.91E-06	3.58E-05	2.10E-05
1168	577106.16	4194097.8	8.70E-04	2.93E-03	2.29E-03	1.36E-04	4.72E-04	3.61E-04	5.95E-06	3.61E-05	2.12E-05
1169	577113.28	4194092.03	8.71E-04	2.93E-03	2.29E-03	1.36E-04	4.73E-04	3.61E-04	5.96E-06	3.61E-05	2.12E-05
1170	577120.4	4194086.26	8.67E-04	2.92E-03	2.28E-03	1.35E-04	4.70E-04	3.59E-04	5.93E-06	3.59E-05	2.11E-05
1171	577127.52	4194080.49	8.58E-04	2.89E-03	2.25E-03	1.34E-04	4.65E-04	3.56E-04	5.87E-06	3.55E-05	2.09E-05
1172	577134.64	4194074.72	8.45E-04	2.85E-03	2.22E-03	1.32E-04	4.59E-04	3.51E-04	5.78E-06	3.50E-05	2.06E-05
1173	577141.76	4194068.95	8.30E-04	2.79E-03	2.18E-03	1.29E-04	4.50E-04	3.44E-04	5.68E-06	3.44E-05	2.02E-05
1174	577148.88	4194063.18	8.12E-04	2.73E-03	2.13E-03	1.27E-04	4.41E-04	3.37E-04	5.55E-06	3.36E-05	1.98E-05

1175	577157.86	4194060.75	8.18E-04	2.75E-03	2.15E-03	1.27E-04	4.44E-04	3.39E-04	5.59E-06	3.39E-05	1.99E-05
1176	577166.99	4194059.94	8.32E-04	2.80E-03	2.19E-03	1.30E-04	4.52E-04	3.45E-04	5.69E-06	3.45E-05	2.03E-05
1177	577176.11	4194059.12	8.46E-04	2.85E-03	2.22E-03	1.32E-04	4.59E-04	3.51E-04	5.79E-06	3.51E-05	2.06E-05
1178	577185.24	4194058.31	8.59E-04	2.89E-03	2.26E-03	1.34E-04	4.66E-04	3.56E-04	5.88E-06	3.56E-05	2.09E-05
1179	577194.37	4194057.49	8.72E-04	2.94E-03	2.29E-03	1.36E-04	4.73E-04	3.62E-04	5.96E-06	3.61E-05	2.12E-05
1180	577203.5	4194056.68	8.85E-04	2.98E-03	2.32E-03	1.38E-04	4.80E-04	3.67E-04	6.05E-06	3.66E-05	2.15E-05
1181	577212.63	4194055.87	8.97E-04	3.02E-03	2.36E-03	1.40E-04	4.87E-04	3.72E-04	6.14E-06	3.72E-05	2.18E-05
1182	577221.76	4194055.05	9.10E-04	3.06E-03	2.39E-03	1.42E-04	4.94E-04	3.77E-04	6.22E-06	3.77E-05	2.21E-05
1183	577230.89	4194054.24	9.22E-04	3.10E-03	2.42E-03	1.44E-04	5.01E-04	3.82E-04	6.31E-06	3.82E-05	2.24E-05
1184	577240.01	4194053.42	9.35E-04	3.15E-03	2.45E-03	1.46E-04	5.07E-04	3.87E-04	6.39E-06	3.87E-05	2.27E-05
1185	577249.14	4194052.61	9.46E-04	3.18E-03	2.48E-03	1.47E-04	5.13E-04	3.92E-04	6.47E-06	3.92E-05	2.30E-05
1186	577258.27	4194051.79	9.56E-04	3.22E-03	2.51E-03	1.49E-04	5.19E-04	3.96E-04	6.54E-06	3.96E-05	2.33E-05
1187	577069.4	4194115.28	7.51E-04	2.53E-03	1.97E-03	1.17E-04	4.08E-04	3.11E-04	5.14E-06	3.11E-05	1.83E-05
1188	577076.52	4194109.5	7.70E-04	2.59E-03	2.02E-03	1.20E-04	4.18E-04	3.19E-04	5.27E-06	3.19E-05	1.87E-05
1189	577083.64	4194103.73	7.85E-04	2.64E-03	2.06E-03	1.22E-04	4.26E-04	3.26E-04	5.37E-06	3.25E-05	1.91E-05
1190	577090.77	4194097.96	7.96E-04	2.68E-03	2.09E-03	1.24E-04	4.32E-04	3.30E-04	5.45E-06	3.30E-05	1.94E-05
1191	577097.89	4194092.19	8.03E-04	2.70E-03	2.11E-03	1.25E-04	4.36E-04	3.33E-04	5.49E-06	3.32E-05	1.95E-05
1192	577105.01	4194086.41	8.04E-04	2.71E-03	2.11E-03	1.25E-04	4.37E-04	3.34E-04	5.50E-06	3.33E-05	1.96E-05
1193	577112.14	4194080.64	8.02E-04	2.70E-03	2.11E-03	1.25E-04	4.35E-04	3.33E-04	5.49E-06	3.32E-05	1.95E-05
1194	577119.26	4194074.87	7.96E-04	2.68E-03	2.09E-03	1.24E-04	4.32E-04	3.30E-04	5.44E-06	3.30E-05	1.94E-05
1195	577126.38	4194069.1	7.86E-04	2.65E-03	2.06E-03	1.22E-04	4.27E-04	3.26E-04	5.38E-06	3.26E-05	1.91E-05
1196	577133.5	4194063.33	7.73E-04	2.60E-03	2.03E-03	1.20E-04	4.20E-04	3.21E-04	5.29E-06	3.20E-05	1.88E-05
1197	577140.63	4194057.55	7.58E-04	2.55E-03	1.99E-03	1.18E-04	4.11E-04	3.14E-04	5.19E-06	3.14E-05	1.84E-05
1198	577147.86	4194052.04	7.43E-04	2.50E-03	1.95E-03	1.16E-04	4.03E-04	3.08E-04	5.08E-06	3.08E-05	1.81E-05
1199	577156.99	4194051.23	7.56E-04	2.55E-03	1.99E-03	1.18E-04	4.10E-04	3.14E-04	5.17E-06	3.13E-05	1.84E-05
1200	577166.12	4194050.41	7.69E-04	2.59E-03	2.02E-03	1.20E-04	4.17E-04	3.19E-04	5.26E-06	3.18E-05	1.87E-05
1201	577175.25	4194049.6	7.81E-04	2.63E-03	2.05E-03	1.22E-04	4.24E-04	3.24E-04	5.34E-06	3.23E-05	1.90E-05
1202	577184.38	4194048.78	7.92E-04	2.67E-03	2.08E-03	1.23E-04	4.30E-04	3.28E-04	5.42E-06	3.28E-05	1.93E-05
1203	577193.52	4194047.97	8.03E-04	2.70E-03	2.11E-03	1.25E-04	4.36E-04	3.33E-04	5.49E-06	3.33E-05	1.95E-05
1204	577202.65	4194047.15	8.14E-04	2.74E-03	2.14E-03	1.27E-04	4.42E-04	3.37E-04	5.57E-06	3.37E-05	1.98E-05
1205	577211.78	4194046.34	8.25E-04	2.78E-03	2.17E-03	1.29E-04	4.48E-04	3.42E-04	5.64E-06	3.42E-05	2.01E-05
1206	577220.91	4194045.52	8.36E-04	2.81E-03	2.19E-03	1.30E-04	4.53E-04	3.46E-04	5.71E-06	3.46E-05	2.03E-05
1207	577230.04	4194044.71	8.47E-04	2.85E-03	2.22E-03	1.32E-04	4.60E-04	3.51E-04	5.79E-06	3.51E-05	2.06E-05
1208	577239.17	4194043.89	8.58E-04	2.89E-03	2.25E-03	1.34E-04	4.66E-04	3.56E-04	5.87E-06	3.55E-05	2.09E-05
1209	577248.31	4194043.08	8.68E-04	2.92E-03	2.28E-03	1.35E-04	4.71E-04	3.60E-04	5.94E-06	3.60E-05	2.11E-05
1210	577257.44	4194042.26	8.77E-04	2.95E-03	2.30E-03	1.37E-04	4.76E-04	3.64E-04	6.00E-06	3.63E-05	2.13E-05
1211	577061.04	4194109.74	6.93E-04	2.33E-03	1.82E-03	1.08E-04	3.76E-04	2.87E-04	4.74E-06	2.87E-05	1.69E-05
1212	577068.14	4194103.98	7.10E-04	2.39E-03	1.87E-03	1.11E-04	3.85E-04	2.94E-04	4.86E-06	2.94E-05	1.73E-05
1213	577075.24	4194098.23	7.24E-04	2.44E-03	1.90E-03	1.13E-04	3.93E-04	3.00E-04	4.95E-06	3.00E-05	1.76E-05
1214	577082.34	4194092.48	7.35E-04	2.47E-03	1.93E-03	1.15E-04	3.99E-04	3.05E-04	5.03E-06	3.05E-05	1.79E-05
1215	577089.44	4194086.72	7.42E-04	2.50E-03	1.95E-03	1.16E-04	4.03E-04	3.08E-04	5.07E-06	3.07E-05	1.80E-05
1216	577096.54	4194080.97	7.45E-04	2.51E-03	1.96E-03	1.16E-04	4.04E-04	3.09E-04	5.09E-06	3.09E-05	1.81E-05
1217	577103.64	4194075.22	7.44E-04	2.50E-03	1.95E-03	1.16E-04	4.04E-04	3.08E-04	5.09E-06	3.08E-05	1.81E-05
1218	577110.74	4194069.46	7.40E-04	2.49E-03	1.94E-03	1.15E-04	4.01E-04	3.07E-04	5.06E-06	3.06E-05	1.80E-05
1219	577117.84	4194063.71	7.32E-04	2.46E-03	1.92E-03	1.14E-04	3.97E-04	3.04E-04	5.01E-06	3.03E-05	1.78E-05
1220	577124.94	4194057.96	7.22E-04	2.43E-03	1.90E-03	1.13E-04	3.92E-04	2.99E-04	4.94E-06	2.99E-05	1.76E-05
1221	577132.04	4194052.2	7.10E-04	2.39E-03	1.86E-03	1.11E-04	3.85E-04	2.94E-04	4.85E-06	2.94E-05	1.73E-05
1222	577139.14	4194046.45	6.95E-04	2.34E-03	1.83E-03	1.08E-04	3.77E-04	2.88E-04	4.75E-06	2.88E-05	1.69E-05
1223	577147.45	4194042.48	6.90E-04	2.32E-03	1.81E-03	1.08E-04	3.75E-04	2.86E-04	4.72E-06	2.86E-05	1.68E-05
1224	577156.55	4194041.66	7.02E-04	2.36E-03	1.84E-03	1.09E-04	3.81E-04	2.91E-04	4.80E-06	2.91E-05	1.71E-05
1225	577165.66	4194040.85	7.12E-04	2.40E-03	1.87E-03	1.11E-04	3.86E-04	2.95E-04	4.87E-06	2.95E-05	1.73E-05
1226	577174.76	4194040.04	7.22E-04	2.43E-03	1.90E-03	1.13E-04	3.92E-04	2.99E-04	4.94E-06	2.99E-05	1.76E-05
1227	577183.86	4194039.23	7.32E-04	2.46E-03	1.92E-03	1.14E-04	3.97E-04	3.04E-04	5.01E-06	3.03E-05	1.78E-05
1228	577192.96	4194038.41	7.42E-04	2.50E-03	1.95E-03	1.16E-04	4.03E-04	3.08E-04	5.07E-06	3.07E-05	1.80E-05
1229	577202.06	4194037.6	7.51E-04	2.53E-03	1.97E-03	1.17E-04	4.08E-04	3.12E-04	5.14E-06	3.11E-05	1.83E-05
1230	577211.17	4194036.79	7.61E-04	2.56E-03	2.00E-03	1.19E-04	4.13E-04	3.16E-04	5.21E-06	3.15E-05	1.85E-05
1231	577220.27	4194035.98	7.71E-04	2.59E-03	2.02E-03	1.20E-04	4.18E-04	3.20E-04	5.27E-06	3.19E-05	1.88E-05
1232	577229.37	4194035.17	7.81E-04	2.63E-03	2.05E-03	1.22E-04	4.24E-04	3.24E-04	5.34E-06	3.23E-05	1.90E-05
1233	577238.47	4194034.35	7.90E-04	2.66E-03	2.07E-03	1.23E-04	4.29E-04	3.28E-04	5.40E-06	3.27E-05	1.92E-05
1234	577247.58	4194033.54	7.99E-04	2.69E-03	2.10E-03	1.24E-04	4.34E-04	3.31E-04	5.46E-06	3.31E-05	1.94E-05
1235	577256.68	4194032.73	8.07E-04	2.72E-03	2.12E-03	1.26E-04	4.38E-04	3.34E-04	5.52E-06	3.34E-05	1.96E-05
1236	577265.78	4194031.92	8.14E-04	2.74E-03	2.14E-03	1.27E-04	4.41E-04	3.37E-04	5.56E-06	3.37E-05	1.98E-05

1237	577045.66	4194109.89	6.22E-04	2.09E-03	1.63E-03	9.69E-05	3.37E-04	2.58E-04	4.25E-06	2.58E-05	1.51E-05
1238	577052.76	4194104.14	6.41E-04	2.16E-03	1.68E-03	9.98E-05	3.48E-04	2.66E-04	4.38E-06	2.65E-05	1.56E-05
1239	577059.86	4194098.38	6.57E-04	2.21E-03	1.73E-03	1.02E-04	3.56E-04	2.72E-04	4.49E-06	2.72E-05	1.60E-05
1240	577066.96	4194092.62	6.70E-04	2.26E-03	1.76E-03	1.04E-04	3.64E-04	2.78E-04	4.58E-06	2.78E-05	1.63E-05
1241	577074.07	4194086.87	6.80E-04	2.29E-03	1.79E-03	1.06E-04	3.69E-04	2.82E-04	4.65E-06	2.82E-05	1.66E-05
1242	577081.17	4194081.11	6.87E-04	2.31E-03	1.81E-03	1.07E-04	3.73E-04	2.85E-04	4.70E-06	2.85E-05	1.67E-05
1243	577088.27	4194075.36	6.91E-04	2.33E-03	1.81E-03	1.08E-04	3.75E-04	2.87E-04	4.73E-06	2.86E-05	1.68E-05
1244	577095.38	4194069.6	6.91E-04	2.33E-03	1.82E-03	1.08E-04	3.75E-04	2.87E-04	4.73E-06	2.86E-05	1.68E-05
1245	577102.48	4194063.84	6.88E-04	2.32E-03	1.81E-03	1.07E-04	3.74E-04	2.85E-04	4.71E-06	2.85E-05	1.67E-05
1246	577109.58	4194058.09	6.83E-04	2.30E-03	1.79E-03	1.06E-04	3.71E-04	2.83E-04	4.67E-06	2.83E-05	1.66E-05
1247	577116.69	4194052.33	6.75E-04	2.27E-03	1.77E-03	1.05E-04	3.66E-04	2.80E-04	4.61E-06	2.79E-05	1.64E-05
1248	577123.79	4194046.58	6.64E-04	2.24E-03	1.74E-03	1.04E-04	3.61E-04	2.75E-04	4.54E-06	2.75E-05	1.62E-05
1249	577130.89	4194040.82	6.52E-04	2.19E-03	1.71E-03	1.02E-04	3.54E-04	2.70E-04	4.46E-06	2.70E-05	1.59E-05
1250	577137.99	4194035.06	6.38E-04	2.15E-03	1.68E-03	9.95E-05	3.46E-04	2.65E-04	4.37E-06	2.64E-05	1.55E-05
1251	577147.05	4194032.91	6.43E-04	2.16E-03	1.69E-03	1.00E-04	3.49E-04	2.67E-04	4.40E-06	2.66E-05	1.56E-05
1252	577156.16	4194032.1	6.53E-04	2.20E-03	1.71E-03	1.02E-04	3.54E-04	2.71E-04	4.46E-06	2.70E-05	1.59E-05
1253	577165.27	4194031.28	6.61E-04	2.23E-03	1.74E-03	1.03E-04	3.59E-04	2.74E-04	4.52E-06	2.74E-05	1.61E-05
1254	577174.37	4194030.47	6.70E-04	2.26E-03	1.76E-03	1.04E-04	3.64E-04	2.78E-04	4.58E-06	2.78E-05	1.63E-05
1255	577183.48	4194029.66	6.79E-04	2.28E-03	1.78E-03	1.06E-04	3.68E-04	2.81E-04	4.64E-06	2.81E-05	1.65E-05
1256	577192.58	4194028.85	6.87E-04	2.31E-03	1.80E-03	1.07E-04	3.73E-04	2.85E-04	4.70E-06	2.85E-05	1.67E-05
1257	577201.69	4194028.03	6.96E-04	2.34E-03	1.83E-03	1.08E-04	3.78E-04	2.88E-04	4.76E-06	2.88E-05	1.69E-05
1258	577210.8	4194027.22	7.04E-04	2.37E-03	1.85E-03	1.10E-04	3.82E-04	2.92E-04	4.82E-06	2.92E-05	1.71E-05
1259	577219.9	4194026.41	7.13E-04	2.40E-03	1.87E-03	1.11E-04	3.87E-04	2.96E-04	4.88E-06	2.95E-05	1.73E-05
1260	577229.01	4194025.6	7.22E-04	2.43E-03	1.90E-03	1.12E-04	3.92E-04	2.99E-04	4.94E-06	2.99E-05	1.76E-05
1261	577238.12	4194024.78	7.30E-04	2.46E-03	1.92E-03	1.14E-04	3.96E-04	3.03E-04	4.99E-06	3.02E-05	1.78E-05
1262	577247.22	4194023.97	7.38E-04	2.48E-03	1.94E-03	1.15E-04	4.00E-04	3.06E-04	5.05E-06	3.06E-05	1.79E-05
1263	577256.33	4194023.16	7.45E-04	2.51E-03	1.96E-03	1.16E-04	4.04E-04	3.09E-04	5.09E-06	3.08E-05	1.81E-05
1264	577265.43	4194022.35	7.51E-04	2.53E-03	1.97E-03	1.17E-04	4.07E-04	3.11E-04	5.13E-06	3.11E-05	1.83E-05
1265	577037.37	4194104.29	5.77E-04	1.94E-03	1.51E-03	8.98E-05	3.13E-04	2.39E-04	3.94E-06	2.39E-05	1.40E-05
1266	577044.48	4194098.53	5.94E-04	2.00E-03	1.56E-03	9.25E-05	3.22E-04	2.46E-04	4.06E-06	2.46E-05	1.44E-05
1267	577051.59	4194092.78	6.09E-04	2.05E-03	1.60E-03	9.49E-05	3.30E-04	2.52E-04	4.16E-06	2.52E-05	1.48E-05
1268	577058.69	4194087.02	6.21E-04	2.09E-03	1.63E-03	9.68E-05	3.37E-04	2.58E-04	4.25E-06	2.57E-05	1.51E-05
1269	577065.8	4194081.26	6.31E-04	2.12E-03	1.66E-03	9.84E-05	3.43E-04	2.62E-04	4.32E-06	2.62E-05	1.54E-05
1270	577072.9	4194075.5	6.38E-04	2.15E-03	1.68E-03	9.95E-05	3.46E-04	2.65E-04	4.37E-06	2.64E-05	1.55E-05
1271	577080.01	4194069.74	6.42E-04	2.16E-03	1.69E-03	1.00E-04	3.49E-04	2.66E-04	4.39E-06	2.66E-05	1.56E-05
1272	577087.11	4194063.98	6.43E-04	2.17E-03	1.69E-03	1.00E-04	3.49E-04	2.67E-04	4.40E-06	2.67E-05	1.57E-05
1273	577094.22	4194058.23	6.42E-04	2.16E-03	1.69E-03	1.00E-04	3.48E-04	2.66E-04	4.39E-06	2.66E-05	1.56E-05
1274	577101.33	4194052.47	6.38E-04	2.15E-03	1.67E-03	9.94E-05	3.46E-04	2.64E-04	4.36E-06	2.64E-05	1.55E-05
1275	577108.43	4194046.71	6.31E-04	2.12E-03	1.66E-03	9.83E-05	3.43E-04	2.62E-04	4.32E-06	2.61E-05	1.54E-05
1276	577115.54	4194040.95	6.23E-04	2.10E-03	1.64E-03	9.70E-05	3.38E-04	2.58E-04	4.26E-06	2.58E-05	1.51E-05
1277	577122.64	4194035.19	6.12E-04	2.06E-03	1.61E-03	9.54E-05	3.32E-04	2.54E-04	4.19E-06	2.54E-05	1.49E-05
1278	577129.75	4194029.43	6.01E-04	2.02E-03	1.58E-03	9.36E-05	3.26E-04	2.49E-04	4.11E-06	2.49E-05	1.46E-05
1279	577137.07	4194024.2	5.90E-04	1.99E-03	1.55E-03	9.19E-05	3.20E-04	2.45E-04	4.04E-06	2.44E-05	1.44E-05
1280	577146.18	4194023.38	5.99E-04	2.02E-03	1.57E-03	9.34E-05	3.25E-04	2.48E-04	4.10E-06	2.48E-05	1.46E-05
1281	577155.29	4194022.57	6.07E-04	2.04E-03	1.60E-03	9.46E-05	3.30E-04	2.52E-04	4.15E-06	2.52E-05	1.48E-05
1282	577164.4	4194021.76	6.15E-04	2.07E-03	1.62E-03	9.58E-05	3.34E-04	2.55E-04	4.21E-06	2.55E-05	1.50E-05
1283	577173.51	4194020.94	6.23E-04	2.10E-03	1.64E-03	9.70E-05	3.38E-04	2.58E-04	4.26E-06	2.58E-05	1.51E-05
1284	577182.62	4194020.13	6.30E-04	2.12E-03	1.65E-03	9.82E-05	3.42E-04	2.61E-04	4.31E-06	2.61E-05	1.53E-05
1285	577191.73	4194019.32	6.38E-04	2.15E-03	1.67E-03	9.94E-05	3.46E-04	2.64E-04	4.36E-06	2.64E-05	1.55E-05
1286	577200.84	4194018.51	6.45E-04	2.17E-03	1.69E-03	1.01E-04	3.50E-04	2.68E-04	4.41E-06	2.67E-05	1.57E-05
1287	577209.95	4194017.69	6.53E-04	2.20E-03	1.72E-03	1.02E-04	3.54E-04	2.71E-04	4.47E-06	2.71E-05	1.59E-05
1288	577219.06	4194016.88	6.61E-04	2.23E-03	1.74E-03	1.03E-04	3.59E-04	2.74E-04	4.52E-06	2.74E-05	1.61E-05
1289	577228.17	4194016.07	6.69E-04	2.25E-03	1.76E-03	1.04E-04	3.63E-04	2.77E-04	4.57E-06	2.77E-05	1.63E-05
1290	577237.28	4194015.25	6.76E-04	2.28E-03	1.78E-03	1.05E-04	3.67E-04	2.80E-04	4.62E-06	2.80E-05	1.65E-05
1291	577246.39	4194014.44	6.83E-04	2.30E-03	1.79E-03	1.06E-04	3.71E-04	2.83E-04	4.67E-06	2.83E-05	1.66E-05
1292	577255.5	4194013.63	6.89E-04	2.32E-03	1.81E-03	1.07E-04	3.74E-04	2.86E-04	4.71E-06	2.85E-05	1.68E-05
1293	577264.61	4194012.82	6.95E-04	2.34E-03	1.82E-03	1.08E-04	3.77E-04	2.88E-04	4.75E-06	2.88E-05	1.69E-05
1294	577021.98	4194104.45	5.18E-04	1.74E-03	1.36E-03	8.07E-05	2.81E-04	2.15E-04	3.54E-06	2.14E-05	1.26E-05
1295	577029.09	4194098.69	5.36E-04	1.80E-03	1.41E-03	8.34E-05	2.91E-04	2.22E-04	3.66E-06	2.22E-05	1.30E-05
1296	577036.2	4194092.93	5.52E-04	1.86E-03	1.45E-03	8.59E-05	2.99E-04	2.29E-04	3.77E-06	2.29E-05	1.34E-05
1297	577043.31	4194087.17	5.66E-04	1.90E-03	1.49E-03	8.81E-05	3.07E-04	2.35E-04	3.87E-06	2.34E-05	1.38E-05
1298	577050.42	4194081.41	5.77E-04	1.94E-03	1.52E-03	9.00E-05	3.13E-04	2.39E-04	3.95E-06	2.39E-05	1.40E-05

1299	577057.53	4194075.65	5.87E-04	1.98E-03	1.54E-03	9.14E-05	3.19E-04	2.43E-04	4.01E-06	2.43E-05	1.43E-05
1300	577064.63	4194069.89	5.94E-04	2.00E-03	1.56E-03	9.25E-05	3.22E-04	2.46E-04	4.06E-06	2.46E-05	1.44E-05
1301	577071.74	4194064.13	5.98E-04	2.01E-03	1.57E-03	9.32E-05	3.25E-04	2.48E-04	4.09E-06	2.48E-05	1.46E-05
1302	577078.85	4194058.37	6.00E-04	2.02E-03	1.58E-03	9.35E-05	3.26E-04	2.49E-04	4.10E-06	2.49E-05	1.46E-05
1303	577085.96	4194052.61	5.99E-04	2.02E-03	1.57E-03	9.34E-05	3.25E-04	2.49E-04	4.10E-06	2.48E-05	1.46E-05
1304	577093.07	4194046.85	5.96E-04	2.01E-03	1.57E-03	9.29E-05	3.24E-04	2.47E-04	4.08E-06	2.47E-05	1.45E-05
1305	577100.18	4194041.09	5.91E-04	1.99E-03	1.55E-03	9.21E-05	3.21E-04	2.45E-04	4.04E-06	2.45E-05	1.44E-05
1306	577107.29	4194035.33	5.85E-04	1.97E-03	1.53E-03	9.11E-05	3.17E-04	2.42E-04	4.00E-06	2.42E-05	1.42E-05
1307	577114.39	4194029.57	5.76E-04	1.94E-03	1.51E-03	8.97E-05	3.12E-04	2.39E-04	3.94E-06	2.39E-05	1.40E-05
1308	577121.5	4194023.81	5.66E-04	1.90E-03	1.49E-03	8.82E-05	3.07E-04	2.35E-04	3.87E-06	2.34E-05	1.38E-05
1309	577128.61	4194018.05	5.55E-04	1.87E-03	1.46E-03	8.64E-05	3.01E-04	2.30E-04	3.79E-06	2.30E-05	1.35E-05
1310	577137.15	4194014.59	5.53E-04	1.86E-03	1.45E-03	8.61E-05	3.00E-04	2.29E-04	3.78E-06	2.29E-05	1.34E-05
1311	577146.26	4194013.77	5.60E-04	1.89E-03	1.47E-03	8.73E-05	3.04E-04	2.32E-04	3.83E-06	2.32E-05	1.36E-05
1312	577155.38	4194012.96	5.67E-04	1.91E-03	1.49E-03	8.84E-05	3.08E-04	2.35E-04	3.88E-06	2.35E-05	1.38E-05
1313	577164.49	4194012.15	5.74E-04	1.93E-03	1.51E-03	8.94E-05	3.11E-04	2.38E-04	3.93E-06	2.38E-05	1.40E-05
1314	577173.6	4194011.33	5.80E-04	1.95E-03	1.52E-03	9.04E-05	3.15E-04	2.41E-04	3.97E-06	2.40E-05	1.41E-05
1315	577182.72	4194010.52	5.87E-04	1.98E-03	1.54E-03	9.15E-05	3.19E-04	2.43E-04	4.01E-06	2.43E-05	1.43E-05
1316	577191.83	4194009.71	5.94E-04	2.00E-03	1.56E-03	9.25E-05	3.22E-04	2.46E-04	4.06E-06	2.46E-05	1.44E-05
1317	577200.94	4194008.89	6.01E-04	2.02E-03	1.58E-03	9.36E-05	3.26E-04	2.49E-04	4.11E-06	2.49E-05	1.46E-05
1318	577210.06	4194008.08	6.08E-04	2.05E-03	1.60E-03	9.47E-05	3.30E-04	2.52E-04	4.16E-06	2.52E-05	1.48E-05
1319	577219.17	4194007.27	6.15E-04	2.07E-03	1.62E-03	9.58E-05	3.34E-04	2.55E-04	4.21E-06	2.55E-05	1.50E-05
1320	577228.28	4194006.45	6.22E-04	2.09E-03	1.63E-03	9.69E-05	3.38E-04	2.58E-04	4.25E-06	2.58E-05	1.51E-05
1321	577237.4	4194005.64	6.29E-04	2.12E-03	1.65E-03	9.80E-05	3.41E-04	2.61E-04	4.30E-06	2.60E-05	1.53E-05
1322	577246.51	4194004.83	6.35E-04	2.14E-03	1.67E-03	9.89E-05	3.45E-04	2.63E-04	4.34E-06	2.63E-05	1.54E-05
1323	577255.62	4194004.01	6.40E-04	2.15E-03	1.68E-03	9.98E-05	3.47E-04	2.65E-04	4.38E-06	2.65E-05	1.56E-05
1324	577264.74	4194003.2	6.45E-04	2.17E-03	1.69E-03	1.01E-04	3.50E-04	2.67E-04	4.41E-06	2.67E-05	1.57E-05
1325	577273.85	4194002.39	6.49E-04	2.18E-03	1.70E-03	1.01E-04	3.52E-04	2.69E-04	4.44E-06	2.69E-05	1.58E-05
1326	577006.59	4194104.62	4.65E-04	1.57E-03	1.22E-03	7.25E-05	2.52E-04	1.93E-04	3.18E-06	1.93E-05	1.13E-05
1327	577013.7	4194098.86	4.82E-04	1.62E-03	1.27E-03	7.52E-05	2.62E-04	2.00E-04	3.30E-06	2.00E-05	1.17E-05
1328	577020.81	4194093.09	4.99E-04	1.68E-03	1.31E-03	7.77E-05	2.71E-04	2.07E-04	3.41E-06	2.07E-05	1.21E-05
1329	577027.92	4194087.33	5.13E-04	1.73E-03	1.35E-03	8.00E-05	2.79E-04	2.13E-04	3.51E-06	2.13E-05	1.25E-05
1330	577035.03	4194081.57	5.27E-04	1.77E-03	1.38E-03	8.20E-05	2.86E-04	2.18E-04	3.60E-06	2.18E-05	1.28E-05
1331	577042.14	4194075.81	5.38E-04	1.81E-03	1.41E-03	8.38E-05	2.92E-04	2.23E-04	3.68E-06	2.23E-05	1.31E-05
1332	577049.25	4194070.04	5.47E-04	1.84E-03	1.44E-03	8.52E-05	2.97E-04	2.27E-04	3.74E-06	2.26E-05	1.33E-05
1333	577056.36	4194064.28	5.54E-04	1.86E-03	1.45E-03	8.63E-05	3.00E-04	2.30E-04	3.79E-06	2.29E-05	1.35E-05
1334	577063.47	4194058.52	5.58E-04	1.88E-03	1.47E-03	8.70E-05	3.03E-04	2.31E-04	3.82E-06	2.31E-05	1.36E-05
1335	577070.59	4194052.76	5.61E-04	1.89E-03	1.47E-03	8.74E-05	3.04E-04	2.32E-04	3.83E-06	2.32E-05	1.36E-05
1336	577077.7	4194046.99	5.61E-04	1.89E-03	1.47E-03	8.74E-05	3.04E-04	2.33E-04	3.84E-06	2.32E-05	1.36E-05
1337	577084.81	4194041.23	5.59E-04	1.88E-03	1.47E-03	8.71E-05	3.03E-04	2.32E-04	3.82E-06	2.31E-05	1.36E-05
1338	577091.92	4194035.47	5.55E-04	1.87E-03	1.46E-03	8.65E-05	3.01E-04	2.30E-04	3.79E-06	2.30E-05	1.35E-05
1339	577099.03	4194029.71	5.49E-04	1.85E-03	1.44E-03	8.56E-05	2.98E-04	2.28E-04	3.76E-06	2.28E-05	1.34E-05
1340	577106.14	4194023.94	5.42E-04	1.82E-03	1.42E-03	8.45E-05	2.94E-04	2.25E-04	3.71E-06	2.25E-05	1.32E-05
1341	577113.25	4194018.18	5.34E-04	1.80E-03	1.40E-03	8.31E-05	2.90E-04	2.21E-04	3.65E-06	2.21E-05	1.30E-05
1342	577120.36	4194012.42	5.24E-04	1.76E-03	1.38E-03	8.16E-05	2.84E-04	2.17E-04	3.58E-06	2.17E-05	1.27E-05
1343	577127.47	4194006.66	5.13E-04	1.73E-03	1.35E-03	7.99E-05	2.78E-04	2.13E-04	3.51E-06	2.12E-05	1.25E-05
1344	577136.75	4194005.02	5.18E-04	1.74E-03	1.36E-03	8.07E-05	2.81E-04	2.15E-04	3.54E-06	2.14E-05	1.26E-05
1345	577145.87	4194004.2	5.24E-04	1.76E-03	1.38E-03	8.17E-05	2.84E-04	2.17E-04	3.59E-06	2.17E-05	1.28E-05
1346	577154.99	4194003.39	5.30E-04	1.78E-03	1.39E-03	8.26E-05	2.88E-04	2.20E-04	3.63E-06	2.20E-05	1.29E-05
1347	577164.1	4194002.58	5.36E-04	1.80E-03	1.41E-03	8.35E-05	2.91E-04	2.22E-04	3.67E-06	2.22E-05	1.30E-05
1348	577173.22	4194001.76	5.42E-04	1.82E-03	1.42E-03	8.44E-05	2.94E-04	2.25E-04	3.71E-06	2.24E-05	1.32E-05
1349	577182.34	4194000.95	5.48E-04	1.84E-03	1.44E-03	8.53E-05	2.97E-04	2.27E-04	3.75E-06	2.27E-05	1.33E-05
1350	577191.45	4194000.14	5.54E-04	1.86E-03	1.45E-03	8.63E-05	3.00E-04	2.30E-04	3.79E-06	2.29E-05	1.35E-05
1351	577200.57	4193999.32	5.60E-04	1.88E-03	1.47E-03	8.72E-05	3.04E-04	2.32E-04	3.83E-06	2.32E-05	1.36E-05
1352	577209.69	4193998.51	5.66E-04	1.91E-03	1.49E-03	8.83E-05	3.07E-04	2.35E-04	3.87E-06	2.35E-05	1.38E-05
1353	577218.8	4193997.7	5.73E-04	1.93E-03	1.50E-03	8.93E-05	3.11E-04	2.38E-04	3.92E-06	2.37E-05	1.39E-05
1354	577227.92	4193996.88	5.80E-04	1.95E-03	1.52E-03	9.03E-05	3.14E-04	2.40E-04	3.96E-06	2.40E-05	1.41E-05
1355	577237.04	4193996.07	5.86E-04	1.97E-03	1.54E-03	9.13E-05	3.18E-04	2.43E-04	4.01E-06	2.43E-05	1.42E-05
1356	577246.15	4193995.26	5.91E-04	1.99E-03	1.55E-03	9.21E-05	3.21E-04	2.45E-04	4.04E-06	2.45E-05	1.44E-05
1357	577255.27	4193994.44	5.96E-04	2.01E-03	1.57E-03	9.29E-05	3.23E-04	2.47E-04	4.08E-06	2.47E-05	1.45E-05
1358	577264.39	4193993.63	6.00E-04	2.02E-03	1.58E-03	9.35E-05	3.26E-04	2.49E-04	4.11E-06	2.49E-05	1.46E-05
1359	577273.5	4193992.82	6.04E-04	2.03E-03	1.59E-03	9.41E-05	3.28E-04	2.50E-04	4.13E-06	2.50E-05	1.47E-05
1360	576998.3	4194099.02	4.35E-04	1.46E-03	1.14E-03	6.77E-05	2.36E-04	1.80E-04	2.97E-06	1.80E-05	1.06E-05

1361	577005.41	4194093.26	4.51E-04	1.52E-03	1.18E-03	7.02E-05	2.45E-04	1.87E-04	3.08E-06	1.87E-05	1.10E-05
1362	577012.52	4194087.5	4.65E-04	1.57E-03	1.22E-03	7.25E-05	2.53E-04	1.93E-04	3.18E-06	1.93E-05	1.13E-05
1363	577019.64	4194081.73	4.79E-04	1.61E-03	1.26E-03	7.46E-05	2.60E-04	1.99E-04	3.27E-06	1.98E-05	1.16E-05
1364	577026.75	4194075.97	4.91E-04	1.65E-03	1.29E-03	7.65E-05	2.66E-04	2.04E-04	3.36E-06	2.03E-05	1.19E-05
1365	577033.86	4194070.2	5.02E-04	1.69E-03	1.32E-03	7.81E-05	2.72E-04	2.08E-04	3.43E-06	2.08E-05	1.22E-05
1366	577040.98	4194064.44	5.10E-04	1.72E-03	1.34E-03	7.95E-05	2.77E-04	2.12E-04	3.49E-06	2.11E-05	1.24E-05
1367	577048.09	4194058.67	5.17E-04	1.74E-03	1.36E-03	8.05E-05	2.80E-04	2.14E-04	3.53E-06	2.14E-05	1.26E-05
1368	577055.2	4194052.91	5.22E-04	1.76E-03	1.37E-03	8.13E-05	2.83E-04	2.16E-04	3.57E-06	2.16E-05	1.27E-05
1369	577062.32	4194047.14	5.25E-04	1.77E-03	1.38E-03	8.17E-05	2.85E-04	2.17E-04	3.59E-06	2.17E-05	1.28E-05
1370	577069.43	4194041.38	5.25E-04	1.77E-03	1.38E-03	8.19E-05	2.85E-04	2.18E-04	3.59E-06	2.18E-05	1.28E-05
1371	577076.54	4194035.62	5.24E-04	1.76E-03	1.38E-03	8.17E-05	2.84E-04	2.17E-04	3.58E-06	2.17E-05	1.28E-05
1372	577083.66	4194029.85	5.21E-04	1.75E-03	1.37E-03	8.12E-05	2.83E-04	2.16E-04	3.56E-06	2.16E-05	1.27E-05
1373	577090.77	4194024.09	5.17E-04	1.74E-03	1.36E-03	8.05E-05	2.80E-04	2.14E-04	3.53E-06	2.14E-05	1.26E-05
1374	577097.88	4194018.32	5.11E-04	1.72E-03	1.34E-03	7.96E-05	2.77E-04	2.12E-04	3.49E-06	2.12E-05	1.24E-05
1375	577105	4194012.56	5.04E-04	1.69E-03	1.32E-03	7.85E-05	2.73E-04	2.09E-04	3.44E-06	2.09E-05	1.22E-05
1376	577112.11	4194006.79	4.95E-04	1.67E-03	1.30E-03	7.71E-05	2.69E-04	2.05E-04	3.39E-06	2.05E-05	1.20E-05
1377	577119.23	4194001.03	4.86E-04	1.63E-03	1.28E-03	7.57E-05	2.64E-04	2.01E-04	3.32E-06	2.01E-05	1.18E-05
1378	577127.24	4193996.26	4.79E-04	1.61E-03	1.26E-03	7.47E-05	2.60E-04	1.99E-04	3.28E-06	1.99E-05	1.17E-05
1379	577136.36	4193995.45	4.86E-04	1.63E-03	1.28E-03	7.57E-05	2.64E-04	2.01E-04	3.32E-06	2.01E-05	1.18E-05
1380	577145.48	4193994.64	4.91E-04	1.65E-03	1.29E-03	7.66E-05	2.67E-04	2.04E-04	3.36E-06	2.04E-05	1.20E-05
1381	577154.6	4193993.82	4.97E-04	1.67E-03	1.30E-03	7.74E-05	2.70E-04	2.06E-04	3.40E-06	2.06E-05	1.21E-05
1382	577163.72	4193993.01	5.02E-04	1.69E-03	1.32E-03	7.82E-05	2.72E-04	2.08E-04	3.43E-06	2.08E-05	1.22E-05
1383	577172.84	4193992.19	5.07E-04	1.71E-03	1.33E-03	7.90E-05	2.75E-04	2.10E-04	3.47E-06	2.10E-05	1.23E-05
1384	577181.96	4193991.38	5.12E-04	1.72E-03	1.34E-03	7.98E-05	2.78E-04	2.12E-04	3.50E-06	2.12E-05	1.25E-05
1385	577191.08	4193990.57	5.17E-04	1.74E-03	1.36E-03	8.06E-05	2.81E-04	2.14E-04	3.54E-06	2.14E-05	1.26E-05
1386	577200.2	4193989.75	5.23E-04	1.76E-03	1.37E-03	8.15E-05	2.84E-04	2.17E-04	3.58E-06	2.17E-05	1.27E-05
1387	577209.32	4193988.94	5.29E-04	1.78E-03	1.39E-03	8.24E-05	2.87E-04	2.19E-04	3.62E-06	2.19E-05	1.29E-05
1388	577218.44	4193988.13	5.35E-04	1.80E-03	1.41E-03	8.34E-05	2.90E-04	2.22E-04	3.66E-06	2.22E-05	1.30E-05
1389	577227.56	4193987.31	5.41E-04	1.82E-03	1.42E-03	8.43E-05	2.94E-04	2.24E-04	3.70E-06	2.24E-05	1.32E-05
1390	577236.68	4193986.5	5.47E-04	1.84E-03	1.44E-03	8.52E-05	2.97E-04	2.27E-04	3.74E-06	2.26E-05	1.33E-05
1391	577245.8	4193985.69	5.52E-04	1.86E-03	1.45E-03	8.60E-05	2.99E-04	2.29E-04	3.77E-06	2.29E-05	1.34E-05
1392	577254.92	4193984.87	5.56E-04	1.87E-03	1.46E-03	8.66E-05	3.02E-04	2.31E-04	3.80E-06	2.30E-05	1.35E-05
1393	577264.04	4193984.06	5.60E-04	1.88E-03	1.47E-03	8.72E-05	3.04E-04	2.32E-04	3.83E-06	2.32E-05	1.36E-05
1394	577273.16	4193983.24	5.63E-04	1.89E-03	1.48E-03	8.77E-05	3.05E-04	2.33E-04	3.85E-06	2.33E-05	1.37E-05
1395	576990.01	4194093.43	4.07E-04	1.37E-03	1.07E-03	6.34E-05	2.21E-04	1.69E-04	2.78E-06	1.69E-05	9.90E-06
1396	576997.12	4194087.66	4.22E-04	1.42E-03	1.11E-03	6.57E-05	2.29E-04	1.75E-04	2.89E-06	1.75E-05	1.03E-05
1397	577004.24	4194081.9	4.35E-04	1.47E-03	1.14E-03	6.78E-05	2.36E-04	1.81E-04	2.98E-06	1.80E-05	1.06E-05
1398	577011.36	4194076.13	4.48E-04	1.51E-03	1.18E-03	6.98E-05	2.43E-04	1.86E-04	3.06E-06	1.85E-05	1.09E-05
1399	577018.47	4194070.36	4.59E-04	1.54E-03	1.21E-03	7.15E-05	2.49E-04	1.90E-04	3.14E-06	1.90E-05	1.12E-05
1400	577025.59	4194064.6	4.69E-04	1.58E-03	1.23E-03	7.31E-05	2.54E-04	1.94E-04	3.21E-06	1.94E-05	1.14E-05
1401	577032.7	4194058.83	4.77E-04	1.61E-03	1.25E-03	7.43E-05	2.59E-04	1.98E-04	3.26E-06	1.98E-05	1.16E-05
1402	577039.82	4194053.07	4.83E-04	1.63E-03	1.27E-03	7.53E-05	2.62E-04	2.00E-04	3.31E-06	2.00E-05	1.18E-05
1403	577046.93	4194047.3	4.88E-04	1.64E-03	1.28E-03	7.61E-05	2.65E-04	2.02E-04	3.34E-06	2.02E-05	1.19E-05
1404	577054.05	4194041.53	4.91E-04	1.65E-03	1.29E-03	7.66E-05	2.67E-04	2.04E-04	3.36E-06	2.04E-05	1.20E-05
1405	577061.16	4194035.77	4.93E-04	1.66E-03	1.29E-03	7.68E-05	2.67E-04	2.04E-04	3.37E-06	2.04E-05	1.20E-05
1406	577068.28	4194030	4.92E-04	1.66E-03	1.29E-03	7.67E-05	2.67E-04	2.04E-04	3.37E-06	2.04E-05	1.20E-05
1407	577075.4	4194024.23	4.90E-04	1.65E-03	1.29E-03	7.64E-05	2.66E-04	2.03E-04	3.35E-06	2.03E-05	1.19E-05
1408	577082.51	4194018.47	4.87E-04	1.64E-03	1.28E-03	7.58E-05	2.64E-04	2.02E-04	3.33E-06	2.02E-05	1.18E-05
1409	577089.63	4194012.7	4.82E-04	1.62E-03	1.27E-03	7.51E-05	2.61E-04	2.00E-04	3.30E-06	2.00E-05	1.17E-05
1410	577096.74	4194006.94	4.76E-04	1.60E-03	1.25E-03	7.41E-05	2.58E-04	1.97E-04	3.25E-06	1.97E-05	1.16E-05
1411	577103.86	4194001.17	4.69E-04	1.58E-03	1.23E-03	7.30E-05	2.54E-04	1.94E-04	3.20E-06	1.94E-05	1.14E-05
1412	577110.97	4193995.4	4.60E-04	1.55E-03	1.21E-03	7.17E-05	2.50E-04	1.91E-04	3.15E-06	1.91E-05	1.12E-05
1413	577118.09	4193989.64	4.51E-04	1.52E-03	1.19E-03	7.03E-05	2.45E-04	1.87E-04	3.09E-06	1.87E-05	1.10E-05
1414	577126.85	4193986.7	4.51E-04	1.52E-03	1.18E-03	7.03E-05	2.45E-04	1.87E-04	3.08E-06	1.87E-05	1.10E-05
1415	577135.97	4193985.88	4.56E-04	1.54E-03	1.20E-03	7.11E-05	2.48E-04	1.89E-04	3.12E-06	1.89E-05	1.11E-05
1416	577145.09	4193985.07	4.61E-04	1.55E-03	1.21E-03	7.19E-05	2.50E-04	1.91E-04	3.15E-06	1.91E-05	1.12E-05
1417	577154.21	4193984.25	4.66E-04	1.57E-03	1.22E-03	7.26E-05	2.53E-04	1.93E-04	3.19E-06	1.93E-05	1.13E-05
1418	577163.34	4193983.44	4.70E-04	1.58E-03	1.24E-03	7.33E-05	2.55E-04	1.95E-04	3.22E-06	1.95E-05	1.14E-05
1419	577172.46	4193982.63	4.75E-04	1.60E-03	1.25E-03	7.40E-05	2.58E-04	1.97E-04	3.25E-06	1.97E-05	1.16E-05
1420	577181.58	4193981.81	4.80E-04	1.61E-03	1.26E-03	7.47E-05	2.60E-04	1.99E-04	3.28E-06	1.99E-05	1.17E-05
1421	577190.7	4193981	4.84E-04	1.63E-03	1.27E-03	7.55E-05	2.63E-04	2.01E-04	3.31E-06	2.01E-05	1.18E-05
1422	577199.83	4193980.18	4.90E-04	1.65E-03	1.29E-03	7.63E-05	2.66E-04	2.03E-04	3.35E-06	2.03E-05	1.19E-05

1423	577208.95	4193979.37	4.95E-04	1.67E-03	1.30E-03	7.71E-05	2.69E-04	2.05E-04	3.39E-06	2.05E-05	1.20E-05
1424	577218.07	4193978.56	5.01E-04	1.68E-03	1.31E-03	7.80E-05	2.72E-04	2.08E-04	3.42E-06	2.07E-05	1.22E-05
1425	577227.19	4193977.74	5.06E-04	1.70E-03	1.33E-03	7.88E-05	2.75E-04	2.10E-04	3.46E-06	2.10E-05	1.23E-05
1426	577236.32	4193976.93	5.11E-04	1.72E-03	1.34E-03	7.96E-05	2.77E-04	2.12E-04	3.50E-06	2.12E-05	1.24E-05
1427	577245.44	4193976.11	5.16E-04	1.74E-03	1.35E-03	8.04E-05	2.80E-04	2.14E-04	3.53E-06	2.14E-05	1.25E-05
1428	577254.56	4193975.3	5.20E-04	1.75E-03	1.37E-03	8.10E-05	2.82E-04	2.16E-04	3.56E-06	2.15E-05	1.26E-05
1429	577263.68	4193974.49	5.23E-04	1.76E-03	1.37E-03	8.15E-05	2.84E-04	2.17E-04	3.58E-06	2.17E-05	1.27E-05
1430	577272.81	4193973.67	5.26E-04	1.77E-03	1.38E-03	8.19E-05	2.85E-04	2.18E-04	3.60E-06	2.18E-05	1.28E-05
1431	576981.72	4194087.83	3.82E-04	1.29E-03	1.00E-03	5.95E-05	2.07E-04	1.58E-04	2.61E-06	1.58E-05	9.29E-06
1432	576988.84	4194082.07	3.96E-04	1.33E-03	1.04E-03	6.16E-05	2.15E-04	1.64E-04	2.71E-06	1.64E-05	9.63E-06
1433	576995.96	4194076.3	4.08E-04	1.37E-03	1.07E-03	6.36E-05	2.21E-04	1.69E-04	2.79E-06	1.69E-05	9.93E-06
1434	577003.07	4194070.53	4.20E-04	1.41E-03	1.10E-03	6.54E-05	2.28E-04	1.74E-04	2.87E-06	1.74E-05	1.02E-05
1435	577010.19	4194064.76	4.30E-04	1.45E-03	1.13E-03	6.70E-05	2.33E-04	1.78E-04	2.94E-06	1.78E-05	1.05E-05
1436	577017.31	4194059	4.39E-04	1.48E-03	1.15E-03	6.85E-05	2.38E-04	1.82E-04	3.01E-06	1.82E-05	1.07E-05
1437	577024.43	4194053.23	4.47E-04	1.51E-03	1.17E-03	6.97E-05	2.43E-04	1.85E-04	3.06E-06	1.85E-05	1.09E-05
1438	577031.54	4194047.46	4.53E-04	1.53E-03	1.19E-03	7.06E-05	2.46E-04	1.88E-04	3.10E-06	1.88E-05	1.10E-05
1439	577038.66	4194041.69	4.58E-04	1.54E-03	1.20E-03	7.13E-05	2.48E-04	1.90E-04	3.13E-06	1.90E-05	1.11E-05
1440	577045.78	4194035.92	4.61E-04	1.55E-03	1.21E-03	7.18E-05	2.50E-04	1.91E-04	3.15E-06	1.91E-05	1.12E-05
1441	577052.9	4194030.16	4.63E-04	1.56E-03	1.22E-03	7.21E-05	2.51E-04	1.92E-04	3.17E-06	1.92E-05	1.13E-05
1442	577060.01	4194024.39	4.63E-04	1.56E-03	1.22E-03	7.21E-05	2.51E-04	1.92E-04	3.17E-06	1.92E-05	1.13E-05
1443	577067.13	4194018.62	4.62E-04	1.55E-03	1.21E-03	7.19E-05	2.50E-04	1.91E-04	3.16E-06	1.91E-05	1.12E-05
1444	577074.25	4194012.85	4.59E-04	1.54E-03	1.20E-03	7.15E-05	2.49E-04	1.90E-04	3.14E-06	1.90E-05	1.12E-05
1445	577081.37	4194007.08	4.55E-04	1.53E-03	1.19E-03	7.09E-05	2.47E-04	1.89E-04	3.11E-06	1.88E-05	1.11E-05
1446	577088.48	4194001.32	4.50E-04	1.51E-03	1.18E-03	7.01E-05	2.44E-04	1.86E-04	3.08E-06	1.86E-05	1.09E-05
1447	577095.6	4193995.55	4.44E-04	1.49E-03	1.17E-03	6.91E-05	2.41E-04	1.84E-04	3.03E-06	1.84E-05	1.08E-05
1448	577102.72	4193989.78	4.37E-04	1.47E-03	1.15E-03	6.80E-05	2.37E-04	1.81E-04	2.99E-06	1.81E-05	1.06E-05
1449	577109.84	4193984.01	4.29E-04	1.44E-03	1.13E-03	6.68E-05	2.33E-04	1.78E-04	2.93E-06	1.78E-05	1.04E-05
1450	577116.96	4193978.25	4.20E-04	1.41E-03	1.10E-03	6.55E-05	2.28E-04	1.74E-04	2.87E-06	1.74E-05	1.02E-05
1451	577125.97	4193977.17	4.25E-04	1.43E-03	1.11E-03	6.61E-05	2.30E-04	1.76E-04	2.90E-06	1.76E-05	1.03E-05
1452	577135.1	4193976.36	4.29E-04	1.44E-03	1.13E-03	6.69E-05	2.33E-04	1.78E-04	2.93E-06	1.78E-05	1.04E-05
1453	577144.22	4193975.54	4.33E-04	1.46E-03	1.14E-03	6.75E-05	2.35E-04	1.80E-04	2.96E-06	1.80E-05	1.05E-05
1454	577153.35	4193974.73	4.37E-04	1.47E-03	1.15E-03	6.82E-05	2.37E-04	1.81E-04	2.99E-06	1.81E-05	1.06E-05
1455	577162.47	4193973.91	4.41E-04	1.49E-03	1.16E-03	6.88E-05	2.40E-04	1.83E-04	3.02E-06	1.83E-05	1.07E-05
1456	577171.6	4193973.1	4.45E-04	1.50E-03	1.17E-03	6.94E-05	2.42E-04	1.85E-04	3.05E-06	1.85E-05	1.08E-05
1457	577180.72	4193972.29	4.50E-04	1.51E-03	1.18E-03	7.01E-05	2.44E-04	1.86E-04	3.08E-06	1.86E-05	1.09E-05
1458	577189.85	4193971.47	4.54E-04	1.53E-03	1.19E-03	7.08E-05	2.46E-04	1.88E-04	3.11E-06	1.88E-05	1.10E-05
1459	577198.97	4193970.66	4.59E-04	1.54E-03	1.21E-03	7.15E-05	2.49E-04	1.90E-04	3.14E-06	1.90E-05	1.12E-05
1460	577208.1	4193969.84	4.64E-04	1.56E-03	1.22E-03	7.23E-05	2.52E-04	1.92E-04	3.17E-06	1.92E-05	1.13E-05
1461	577217.22	4193969.03	4.69E-04	1.58E-03	1.23E-03	7.31E-05	2.54E-04	1.94E-04	3.21E-06	1.94E-05	1.14E-05
1462	577226.35	4193968.21	4.74E-04	1.60E-03	1.24E-03	7.38E-05	2.57E-04	1.96E-04	3.24E-06	1.96E-05	1.15E-05
1463	577235.47	4193967.4	4.79E-04	1.61E-03	1.26E-03	7.46E-05	2.60E-04	1.98E-04	3.27E-06	1.98E-05	1.16E-05
1464	577244.6	4193966.59	4.83E-04	1.63E-03	1.27E-03	7.53E-05	2.62E-04	2.00E-04	3.30E-06	2.00E-05	1.18E-05
1465	577253.72	4193965.77	4.87E-04	1.64E-03	1.28E-03	7.59E-05	2.64E-04	2.02E-04	3.33E-06	2.02E-05	1.18E-05
1466	577262.85	4193964.96	4.90E-04	1.65E-03	1.29E-03	7.63E-05	2.66E-04	2.03E-04	3.35E-06	2.03E-05	1.19E-05
1467	577271.98	4193964.14	4.92E-04	1.66E-03	1.29E-03	7.67E-05	2.67E-04	2.04E-04	3.37E-06	2.04E-05	1.20E-05
1468	577281.1	4193963.33	4.94E-04	1.66E-03	1.30E-03	7.69E-05	2.68E-04	2.05E-04	3.38E-06	2.05E-05	1.20E-05
1469	576973.43	4194082.24	3.59E-04	1.21E-03	9.42E-04	5.59E-05	1.95E-04	1.49E-04	2.45E-06	1.49E-05	8.73E-06
1470	576980.55	4194076.47	3.72E-04	1.25E-03	9.76E-04	5.79E-05	2.02E-04	1.54E-04	2.54E-06	1.54E-05	9.04E-06
1471	576987.67	4194070.7	3.83E-04	1.29E-03	1.01E-03	5.97E-05	2.08E-04	1.59E-04	2.62E-06	1.59E-05	9.32E-06
1472	576994.79	4194064.93	3.94E-04	1.33E-03	1.03E-03	6.14E-05	2.14E-04	1.63E-04	2.69E-06	1.63E-05	9.58E-06
1473	577001.91	4194059.16	4.04E-04	1.36E-03	1.06E-03	6.29E-05	2.19E-04	1.67E-04	2.76E-06	1.67E-05	9.82E-06
1474	577009.03	4194053.39	4.12E-04	1.39E-03	1.08E-03	6.43E-05	2.24E-04	1.71E-04	2.82E-06	1.71E-05	1.00E-05
1475	577016.15	4194047.62	4.20E-04	1.41E-03	1.10E-03	6.54E-05	2.28E-04	1.74E-04	2.87E-06	1.74E-05	1.02E-05
1476	577023.27	4194041.85	4.26E-04	1.43E-03	1.12E-03	6.63E-05	2.31E-04	1.77E-04	2.91E-06	1.76E-05	1.04E-05
1477	577030.39	4194036.08	4.30E-04	1.45E-03	1.13E-03	6.70E-05	2.34E-04	1.78E-04	2.94E-06	1.78E-05	1.05E-05
1478	577037.51	4194030.32	4.34E-04	1.46E-03	1.14E-03	6.75E-05	2.35E-04	1.80E-04	2.96E-06	1.80E-05	1.05E-05
1479	577044.63	4194024.55	4.35E-04	1.47E-03	1.14E-03	6.78E-05	2.36E-04	1.81E-04	2.98E-06	1.80E-05	1.06E-05
1480	577051.75	4194018.78	4.36E-04	1.47E-03	1.14E-03	6.79E-05	2.37E-04	1.81E-04	2.98E-06	1.81E-05	1.06E-05
1481	577058.87	4194013.01	4.35E-04	1.46E-03	1.14E-03	6.78E-05	2.36E-04	1.80E-04	2.98E-06	1.80E-05	1.06E-05
1482	577065.99	4194007.24	4.33E-04	1.46E-03	1.14E-03	6.75E-05	2.35E-04	1.80E-04	2.96E-06	1.79E-05	1.05E-05
1483	577073.11	4194001.47	4.30E-04	1.45E-03	1.13E-03	6.70E-05	2.33E-04	1.78E-04	2.94E-06	1.78E-05	1.05E-05
1484	577080.22	4193995.7	4.26E-04	1.43E-03	1.12E-03	6.63E-05	2.31E-04	1.76E-04	2.91E-06	1.76E-05	1.04E-05

1485	577087.34	4193989.93	4.20E-04	1.42E-03	1.10E-03	6.55E-05	2.28E-04	1.74E-04	2.88E-06	1.74E-05	1.02E-05
1486	577094.46	4193984.16	4.14E-04	1.39E-03	1.09E-03	6.46E-05	2.25E-04	1.72E-04	2.83E-06	1.72E-05	1.01E-05
1487	577101.58	4193978.39	4.08E-04	1.37E-03	1.07E-03	6.35E-05	2.21E-04	1.69E-04	2.79E-06	1.69E-05	9.91E-06
1488	577108.7	4193972.62	4.00E-04	1.35E-03	1.05E-03	6.23E-05	2.17E-04	1.66E-04	2.74E-06	1.66E-05	9.73E-06
1489	577116.94	4193968.37	3.96E-04	1.33E-03	1.04E-03	6.17E-05	2.15E-04	1.64E-04	2.71E-06	1.64E-05	9.64E-06
1490	577126.06	4193967.56	4.01E-04	1.35E-03	1.05E-03	6.24E-05	2.17E-04	1.66E-04	2.74E-06	1.66E-05	9.75E-06
1491	577135.19	4193966.74	4.05E-04	1.36E-03	1.06E-03	6.30E-05	2.20E-04	1.68E-04	2.77E-06	1.68E-05	9.84E-06
1492	577144.32	4193965.93	4.08E-04	1.37E-03	1.07E-03	6.36E-05	2.22E-04	1.69E-04	2.79E-06	1.69E-05	9.93E-06
1493	577153.45	4193965.12	4.12E-04	1.39E-03	1.08E-03	6.42E-05	2.23E-04	1.71E-04	2.82E-06	1.71E-05	1.00E-05
1494	577162.57	4193964.3	4.15E-04	1.40E-03	1.09E-03	6.47E-05	2.25E-04	1.72E-04	2.84E-06	1.72E-05	1.01E-05
1495	577171.7	4193963.49	4.19E-04	1.41E-03	1.10E-03	6.53E-05	2.27E-04	1.74E-04	2.87E-06	1.74E-05	1.02E-05
1496	577180.83	4193962.67	4.23E-04	1.42E-03	1.11E-03	6.59E-05	2.29E-04	1.75E-04	2.89E-06	1.75E-05	1.03E-05
1497	577189.96	4193961.86	4.27E-04	1.44E-03	1.12E-03	6.65E-05	2.32E-04	1.77E-04	2.92E-06	1.77E-05	1.04E-05
1498	577199.08	4193961.04	4.31E-04	1.45E-03	1.13E-03	6.72E-05	2.34E-04	1.79E-04	2.95E-06	1.79E-05	1.05E-05
1499	577208.21	4193960.23	4.36E-04	1.47E-03	1.15E-03	6.79E-05	2.37E-04	1.81E-04	2.98E-06	1.81E-05	1.06E-05
1500	577217.34	4193959.42	4.41E-04	1.48E-03	1.16E-03	6.87E-05	2.39E-04	1.83E-04	3.01E-06	1.83E-05	1.07E-05
1501	577226.47	4193958.6	4.45E-04	1.50E-03	1.17E-03	6.94E-05	2.42E-04	1.85E-04	3.04E-06	1.84E-05	1.08E-05
1502	577235.59	4193957.79	4.50E-04	1.51E-03	1.18E-03	7.01E-05	2.44E-04	1.86E-04	3.07E-06	1.86E-05	1.09E-05
1503	577244.72	4193956.97	4.54E-04	1.53E-03	1.19E-03	7.07E-05	2.46E-04	1.88E-04	3.10E-06	1.88E-05	1.10E-05
1504	577253.85	4193956.16	4.57E-04	1.54E-03	1.20E-03	7.12E-05	2.48E-04	1.90E-04	3.13E-06	1.89E-05	1.11E-05
1505	577262.98	4193955.34	4.60E-04	1.55E-03	1.21E-03	7.16E-05	2.49E-04	1.91E-04	3.14E-06	1.90E-05	1.12E-05
1506	577272.1	4193954.53	4.62E-04	1.55E-03	1.21E-03	7.20E-05	2.51E-04	1.91E-04	3.16E-06	1.91E-05	1.12E-05
1507	577281.23	4193953.71	4.63E-04	1.56E-03	1.22E-03	7.21E-05	2.51E-04	1.92E-04	3.17E-06	1.92E-05	1.13E-05
1508	576965.14	4194076.64	3.37E-04	1.14E-03	8.86E-04	5.26E-05	1.83E-04	1.40E-04	2.31E-06	1.40E-05	8.21E-06
1509	576972.26	4194070.87	3.50E-04	1.18E-03	9.19E-04	5.45E-05	1.90E-04	1.45E-04	2.39E-06	1.45E-05	8.51E-06
1510	576979.39	4194065.1	3.61E-04	1.21E-03	9.47E-04	5.62E-05	1.96E-04	1.49E-04	2.47E-06	1.49E-05	8.77E-06
1511	576986.51	4194059.33	3.70E-04	1.25E-03	9.73E-04	5.77E-05	2.01E-04	1.54E-04	2.53E-06	1.53E-05	9.01E-06
1512	576993.63	4194053.56	3.79E-04	1.28E-03	9.96E-04	5.91E-05	2.06E-04	1.57E-04	2.60E-06	1.57E-05	9.23E-06
1513	577000.75	4194047.79	3.88E-04	1.30E-03	1.02E-03	6.04E-05	2.10E-04	1.61E-04	2.65E-06	1.61E-05	9.43E-06
1514	577007.87	4194042.02	3.95E-04	1.33E-03	1.04E-03	6.15E-05	2.14E-04	1.64E-04	2.70E-06	1.64E-05	9.60E-06
1515	577014.99	4194036.25	4.00E-04	1.35E-03	1.05E-03	6.24E-05	2.17E-04	1.66E-04	2.74E-06	1.66E-05	9.74E-06
1516	577022.11	4194030.48	4.05E-04	1.36E-03	1.06E-03	6.31E-05	2.20E-04	1.68E-04	2.77E-06	1.68E-05	9.85E-06
1517	577029.24	4194024.71	4.08E-04	1.37E-03	1.07E-03	6.36E-05	2.22E-04	1.69E-04	2.79E-06	1.69E-05	9.93E-06
1518	577036.36	4194018.94	4.10E-04	1.38E-03	1.08E-03	6.39E-05	2.23E-04	1.70E-04	2.81E-06	1.70E-05	9.98E-06
1519	577043.48	4194013.17	4.11E-04	1.38E-03	1.08E-03	6.41E-05	2.23E-04	1.70E-04	2.81E-06	1.70E-05	1.00E-05
1520	577050.6	4194007.39	4.11E-04	1.38E-03	1.08E-03	6.40E-05	2.23E-04	1.70E-04	2.81E-06	1.70E-05	9.99E-06
1521	577057.72	4194001.62	4.09E-04	1.38E-03	1.07E-03	6.38E-05	2.22E-04	1.70E-04	2.80E-06	1.70E-05	9.96E-06
1522	577064.84	4193995.85	4.07E-04	1.37E-03	1.07E-03	6.34E-05	2.21E-04	1.69E-04	2.78E-06	1.68E-05	9.89E-06
1523	577071.96	4193990.08	4.03E-04	1.36E-03	1.06E-03	6.28E-05	2.19E-04	1.67E-04	2.76E-06	1.67E-05	9.81E-06
1524	577079.08	4193984.31	3.99E-04	1.34E-03	1.05E-03	6.21E-05	2.16E-04	1.65E-04	2.73E-06	1.65E-05	9.70E-06
1525	577086.21	4193978.54	3.94E-04	1.32E-03	1.03E-03	6.13E-05	2.14E-04	1.63E-04	2.69E-06	1.63E-05	9.58E-06
1526	577093.33	4193972.77	3.88E-04	1.30E-03	1.02E-03	6.04E-05	2.10E-04	1.61E-04	2.65E-06	1.61E-05	9.43E-06
1527	577100.45	4193967	3.81E-04	1.28E-03	1.00E-03	5.94E-05	2.07E-04	1.58E-04	2.61E-06	1.58E-05	9.27E-06
1528	577107.57	4193961.23	3.74E-04	1.26E-03	9.82E-04	5.83E-05	2.03E-04	1.55E-04	2.56E-06	1.55E-05	9.09E-06
1529	577116.55	4193958.81	3.75E-04	1.26E-03	9.84E-04	5.84E-05	2.03E-04	1.55E-04	2.56E-06	1.55E-05	9.11E-06
1530	577125.68	4193957.99	3.78E-04	1.27E-03	9.93E-04	5.89E-05	2.05E-04	1.57E-04	2.59E-06	1.57E-05	9.20E-06
1531	577134.81	4193957.18	3.82E-04	1.28E-03	1.00E-03	5.95E-05	2.07E-04	1.58E-04	2.61E-06	1.58E-05	9.29E-06
1532	577143.93	4193956.36	3.85E-04	1.30E-03	1.01E-03	6.00E-05	2.09E-04	1.60E-04	2.63E-06	1.59E-05	9.36E-06
1533	577153.06	4193955.55	3.88E-04	1.31E-03	1.02E-03	6.05E-05	2.11E-04	1.61E-04	2.65E-06	1.61E-05	9.44E-06
1534	577162.19	4193954.73	3.91E-04	1.32E-03	1.03E-03	6.10E-05	2.12E-04	1.62E-04	2.68E-06	1.62E-05	9.52E-06
1535	577171.32	4193953.92	3.95E-04	1.33E-03	1.04E-03	6.15E-05	2.14E-04	1.64E-04	2.70E-06	1.63E-05	9.60E-06
1536	577180.45	4193953.1	3.98E-04	1.34E-03	1.05E-03	6.20E-05	2.16E-04	1.65E-04	2.72E-06	1.65E-05	9.69E-06
1537	577189.58	4193952.29	4.02E-04	1.35E-03	1.06E-03	6.26E-05	2.18E-04	1.67E-04	2.75E-06	1.67E-05	9.78E-06
1538	577198.71	4193951.47	4.06E-04	1.37E-03	1.07E-03	6.33E-05	2.20E-04	1.68E-04	2.78E-06	1.68E-05	9.88E-06
1539	577207.84	4193950.66	4.10E-04	1.38E-03	1.08E-03	6.39E-05	2.23E-04	1.70E-04	2.81E-06	1.70E-05	9.98E-06
1540	577216.97	4193949.84	4.15E-04	1.40E-03	1.09E-03	6.46E-05	2.25E-04	1.72E-04	2.84E-06	1.72E-05	1.01E-05
1541	577226.1	4193949.03	4.19E-04	1.41E-03	1.10E-03	6.52E-05	2.27E-04	1.74E-04	2.86E-06	1.73E-05	1.02E-05
1542	577235.23	4193948.22	4.23E-04	1.42E-03	1.11E-03	6.59E-05	2.29E-04	1.75E-04	2.89E-06	1.75E-05	1.03E-05
1543	577244.36	4193947.4	4.26E-04	1.44E-03	1.12E-03	6.64E-05	2.31E-04	1.77E-04	2.92E-06	1.77E-05	1.04E-05
1544	577253.49	4193946.59	4.30E-04	1.45E-03	1.13E-03	6.69E-05	2.33E-04	1.78E-04	2.94E-06	1.78E-05	1.05E-05
1545	577262.62	4193945.77	4.32E-04	1.45E-03	1.13E-03	6.73E-05	2.34E-04	1.79E-04	2.96E-06	1.79E-05	1.05E-05
1546	577271.75	4193944.96	4.34E-04	1.46E-03	1.14E-03	6.76E-05	2.36E-04	1.80E-04	2.97E-06	1.80E-05	1.06E-05

1547	577280.88	4193944.14	4.35E-04	1.46E-03	1.14E-03	6.78E-05	2.36E-04	1.80E-04	2.98E-06	1.80E-05	1.06E-05
1548	577208.27	4194260.32	6.26E-03	2.11E-02	1.64E-02	9.76E-04	3.40E-03	2.60E-03	4.28E-05	2.59E-04	1.52E-04
1549	577200.52	4194249.54	5.60E-03	1.88E-02	1.47E-02	8.72E-04	3.04E-03	2.32E-03	3.83E-05	2.32E-04	1.36E-04
1550	577190.78	4194247.26	4.67E-03	1.57E-02	1.23E-02	7.27E-04	2.53E-03	1.94E-03	3.19E-05	1.93E-04	1.14E-04
1551	577183.46	4194239.46	4.26E-03	1.43E-02	1.12E-02	6.64E-04	2.31E-03	1.77E-03	2.91E-05	1.77E-04	1.04E-04
1552	577179.06	4194253.48	3.62E-03	1.22E-02	9.51E-03	5.64E-04	1.97E-03	1.50E-03	2.48E-05	1.50E-04	8.81E-05
1553	577174.21	4194236.07	3.67E-03	1.24E-02	9.65E-03	5.72E-04	1.99E-03	1.52E-03	2.51E-05	1.52E-04	8.94E-05
1554	577169.32	4194251.2	3.11E-03	1.05E-02	8.16E-03	4.84E-04	1.69E-03	1.29E-03	2.13E-05	1.29E-04	7.56E-05
1555	577164.95	4194232.69	3.16E-03	1.06E-02	8.30E-03	4.92E-04	1.71E-03	1.31E-03	2.16E-05	1.31E-04	7.68E-05
1556	577159.58	4194248.92	2.65E-03	8.91E-03	6.95E-03	4.13E-04	1.44E-03	1.10E-03	1.81E-05	1.10E-04	6.44E-05
1557	577154.73	4194231.51	2.67E-03	9.00E-03	7.02E-03	4.17E-04	1.45E-03	1.11E-03	1.83E-05	1.11E-04	6.51E-05
1558	577149.85	4194246.64	2.25E-03	7.58E-03	5.91E-03	3.51E-04	1.22E-03	9.33E-04	1.54E-05	9.32E-05	5.48E-05
1559	577145.36	4194228.4	2.32E-03	7.82E-03	6.10E-03	3.62E-04	1.26E-03	9.63E-04	1.59E-05	9.62E-05	5.65E-05
1560	577151.88	4194213.49	2.58E-03	8.69E-03	6.78E-03	4.02E-04	1.40E-03	1.07E-03	1.77E-05	1.07E-04	6.28E-05
1561	577140.11	4194244.36	1.93E-03	6.49E-03	5.07E-03	3.01E-04	1.05E-03	8.00E-04	1.32E-05	7.99E-05	4.69E-05
1562	577135.26	4194226.95	1.99E-03	6.71E-03	5.23E-03	3.10E-04	1.08E-03	8.26E-04	1.36E-05	8.25E-05	4.85E-05
1563	577141.05	4194213.69	2.21E-03	7.43E-03	5.79E-03	3.44E-04	1.20E-03	9.15E-04	1.51E-05	9.14E-05	5.37E-05
1564	577130.37	4194242.08	1.66E-03	5.60E-03	4.37E-03	2.59E-04	9.03E-04	6.90E-04	1.14E-05	6.89E-05	4.05E-05
1565	577125.81	4194224.01	1.73E-03	5.81E-03	4.53E-03	2.69E-04	9.37E-04	7.16E-04	1.18E-05	7.15E-05	4.20E-05
1566	577132.18	4194209.42	1.94E-03	6.52E-03	5.09E-03	3.02E-04	1.05E-03	8.03E-04	1.32E-05	8.02E-05	4.71E-05
1567	577120.64	4194239.81	1.44E-03	4.85E-03	3.79E-03	2.25E-04	7.83E-04	5.98E-04	9.86E-06	5.97E-05	3.51E-05
1568	577116.37	4194221.07	1.50E-03	5.06E-03	3.95E-03	2.34E-04	8.16E-04	6.23E-04	1.03E-05	6.23E-05	3.66E-05
1569	577123.32	4194205.16	1.70E-03	5.74E-03	4.47E-03	2.66E-04	9.25E-04	7.07E-04	1.17E-05	7.06E-05	4.15E-05
1570	577110.9	4194237.53	1.26E-03	4.22E-03	3.30E-03	1.96E-04	6.81E-04	5.20E-04	8.58E-06	5.20E-05	3.05E-05
1571	577106.29	4194219.56	1.30E-03	4.37E-03	3.41E-03	2.02E-04	7.05E-04	5.39E-04	8.89E-06	5.38E-05	3.16E-05
1572	577112.57	4194205.2	1.47E-03	4.95E-03	3.86E-03	2.29E-04	7.97E-04	6.09E-04	1.00E-05	6.09E-05	3.57E-05
1573	577101.16	4194235.25	1.10E-03	3.70E-03	2.89E-03	1.71E-04	5.97E-04	4.56E-04	7.52E-06	4.56E-05	2.68E-05
1574	577096.8	4194216.73	1.15E-03	3.87E-03	3.02E-03	1.79E-04	6.24E-04	4.77E-04	7.86E-06	4.76E-05	2.80E-05
1575	577103.55	4194201.26	1.31E-03	4.40E-03	3.43E-03	2.04E-04	7.09E-04	5.42E-04	8.94E-06	5.41E-05	3.18E-05
1576	577110.31	4194185.79	1.41E-03	4.74E-03	3.70E-03	2.19E-04	7.64E-04	5.84E-04	9.63E-06	5.83E-05	3.42E-05
1577	577091.43	4194232.97	9.73E-04	3.27E-03	2.56E-03	1.52E-04	5.28E-04	4.03E-04	6.65E-06	4.03E-05	2.37E-05
1578	577086.78	4194215.08	1.01E-03	3.40E-03	2.65E-03	1.57E-04	5.48E-04	4.19E-04	6.91E-06	4.19E-05	2.46E-05
1579	577092.99	4194200.87	1.14E-03	3.84E-03	3.00E-03	1.78E-04	6.20E-04	4.73E-04	7.81E-06	4.73E-05	2.78E-05
1580	577099.2	4194186.67	1.24E-03	4.16E-03	3.24E-03	1.93E-04	6.70E-04	5.12E-04	8.45E-06	5.12E-05	3.01E-05
1581	577081.69	4194230.69	8.65E-04	2.91E-03	2.27E-03	1.35E-04	4.69E-04	3.58E-04	5.91E-06	3.58E-05	2.10E-05
1582	577077.25	4194212.33	9.03E-04	3.04E-03	2.37E-03	1.41E-04	4.90E-04	3.74E-04	6.18E-06	3.74E-05	2.20E-05
1583	577083.87	4194197.17	1.03E-03	3.45E-03	2.69E-03	1.60E-04	5.56E-04	4.25E-04	7.01E-06	4.25E-05	2.49E-05
1584	577090.49	4194182.02	1.11E-03	3.74E-03	2.92E-03	1.73E-04	6.04E-04	4.61E-04	7.61E-06	4.61E-05	2.71E-05
1585	577071.95	4194228.41	7.71E-04	2.59E-03	2.02E-03	1.20E-04	4.18E-04	3.19E-04	5.27E-06	3.19E-05	1.87E-05
1586	577067.28	4194210.58	8.00E-04	2.69E-03	2.10E-03	1.25E-04	4.34E-04	3.32E-04	5.47E-06	3.31E-05	1.95E-05
1587	577073.44	4194196.49	9.04E-04	3.04E-03	2.37E-03	1.41E-04	4.91E-04	3.75E-04	6.18E-06	3.75E-05	2.20E-05
1588	577079.59	4194182.4	9.84E-04	3.31E-03	2.58E-03	1.53E-04	5.34E-04	4.08E-04	6.73E-06	4.08E-05	2.39E-05
1589	577062.22	4194226.13	6.87E-04	2.31E-03	1.80E-03	1.07E-04	3.73E-04	2.85E-04	4.70E-06	2.85E-05	1.67E-05
1590	577057.73	4194207.89	7.17E-04	2.41E-03	1.88E-03	1.12E-04	3.89E-04	2.97E-04	4.90E-06	2.97E-05	1.74E-05
1591	577064.24	4194192.97	8.14E-04	2.74E-03	2.14E-03	1.27E-04	4.42E-04	3.37E-04	5.57E-06	3.37E-05	1.98E-05
1592	577070.76	4194178.05	8.92E-04	3.00E-03	2.34E-03	1.39E-04	4.84E-04	3.70E-04	6.10E-06	3.70E-05	2.17E-05
1593	577077.28	4194163.13	9.38E-04	3.16E-03	2.46E-03	1.46E-04	5.09E-04	3.89E-04	6.41E-06	3.89E-05	2.28E-05
1594	577052.48	4194223.85	6.16E-04	2.07E-03	1.62E-03	9.59E-05	3.34E-04	2.55E-04	4.21E-06	2.55E-05	1.50E-05
1595	577048.17	4194205.2	6.45E-04	2.17E-03	1.69E-03	1.01E-04	3.50E-04	2.68E-04	4.41E-06	2.67E-05	1.57E-05
1596	577055.05	4194189.45	7.36E-04	2.48E-03	1.93E-03	1.15E-04	3.99E-04	3.05E-04	5.03E-06	3.05E-05	1.79E-05
1597	577061.93	4194173.7	8.10E-04	2.73E-03	2.13E-03	1.26E-04	4.39E-04	3.36E-04	5.54E-06	3.35E-05	1.97E-05
1598	577068.81	4194157.95	8.55E-04	2.88E-03	2.24E-03	1.33E-04	4.64E-04	3.54E-04	5.85E-06	3.54E-05	2.08E-05
1599	577042.74	4194221.57	5.54E-04	1.86E-03	1.45E-03	8.63E-05	3.00E-04	2.30E-04	3.79E-06	2.29E-05	1.35E-05
1600	577038.21	4194203.42	5.79E-04	1.95E-03	1.52E-03	9.02E-05	3.14E-04	2.40E-04	3.96E-06	2.40E-05	1.41E-05
1601	577044.65	4194188.69	6.55E-04	2.20E-03	1.72E-03	1.02E-04	3.55E-04	2.71E-04	4.48E-06	2.71E-05	1.59E-05
1602	577051.09	4194173.95	7.21E-04	2.43E-03	1.89E-03	1.12E-04	3.91E-04	2.99E-04	4.93E-06	2.99E-05	1.75E-05
1603	577057.52	4194159.22	7.69E-04	2.59E-03	2.02E-03	1.20E-04	4.17E-04	3.19E-04	5.26E-06	3.18E-05	1.87E-05
1604	577033.01	4194219.29	4.99E-04	1.68E-03	1.31E-03	7.77E-05	2.71E-04	2.07E-04	3.41E-06	2.07E-05	1.21E-05
1605	577028.64	4194200.77	5.26E-04	1.77E-03	1.38E-03	8.19E-05	2.85E-04	2.18E-04	3.60E-06	2.18E-05	1.28E-05
1606	577035.4	4194185.3	5.98E-04	2.01E-03	1.57E-03	9.32E-05	3.25E-04	2.48E-04	4.09E-06	2.48E-05	1.46E-05
1607	577042.15	4194169.83	6.59E-04	2.22E-03	1.73E-03	1.03E-04	3.58E-04	2.73E-04	4.51E-06	2.73E-05	1.60E-05
1608	577048.91	4194154.36	7.04E-04	2.37E-03	1.85E-03	1.10E-04	3.82E-04	2.92E-04	4.82E-06	2.92E-05	1.71E-05

1609	577023.27	4194217.01	4.52E-04	1.52E-03	1.19E-03	7.04E-05	2.45E-04	1.87E-04	3.09E-06	1.87E-05	1.10E-05
1610	577018.71	4194198.94	4.76E-04	1.60E-03	1.25E-03	7.42E-05	2.59E-04	1.98E-04	3.26E-06	1.97E-05	1.16E-05
1611	577025.08	4194184.35	5.39E-04	1.82E-03	1.42E-03	8.40E-05	2.93E-04	2.24E-04	3.69E-06	2.23E-05	1.31E-05
1612	577031.45	4194169.76	5.93E-04	2.00E-03	1.56E-03	9.25E-05	3.22E-04	2.46E-04	4.06E-06	2.46E-05	1.44E-05
1613	577037.82	4194155.18	6.35E-04	2.14E-03	1.67E-03	9.89E-05	3.45E-04	2.63E-04	4.34E-06	2.63E-05	1.54E-05
1614	577013.53	4194214.73	4.11E-04	1.38E-03	1.08E-03	6.40E-05	2.23E-04	1.70E-04	2.81E-06	1.70E-05	1.00E-05
1615	577009.12	4194196.33	4.37E-04	1.47E-03	1.15E-03	6.80E-05	2.37E-04	1.81E-04	2.99E-06	1.81E-05	1.06E-05
1616	577015.78	4194181.08	4.96E-04	1.67E-03	1.30E-03	7.73E-05	2.69E-04	2.06E-04	3.39E-06	2.06E-05	1.21E-05
1617	577022.44	4194165.83	5.47E-04	1.84E-03	1.44E-03	8.53E-05	2.97E-04	2.27E-04	3.74E-06	2.27E-05	1.33E-05
1618	577029.1	4194150.58	5.86E-04	1.97E-03	1.54E-03	9.13E-05	3.18E-04	2.43E-04	4.01E-06	2.43E-05	1.42E-05
1619	577035.76	4194135.33	6.13E-04	2.06E-03	1.61E-03	9.55E-05	3.32E-04	2.54E-04	4.19E-06	2.54E-05	1.49E-05
1620	577003.8	4194212.45	3.75E-04	1.26E-03	9.86E-04	5.85E-05	2.04E-04	1.56E-04	2.57E-06	1.56E-05	9.13E-06
1621	576999.52	4194193.71	4.02E-04	1.35E-03	1.05E-03	6.26E-05	2.18E-04	1.66E-04	2.75E-06	1.66E-05	9.77E-06
1622	577006.48	4194177.8	4.58E-04	1.54E-03	1.20E-03	7.13E-05	2.48E-04	1.90E-04	3.13E-06	1.90E-05	1.11E-05
1623	577013.43	4194161.89	5.06E-04	1.70E-03	1.33E-03	7.88E-05	2.74E-04	2.10E-04	3.46E-06	2.09E-05	1.23E-05
1624	577020.38	4194145.98	5.41E-04	1.82E-03	1.42E-03	8.43E-05	2.94E-04	2.24E-04	3.70E-06	2.24E-05	1.32E-05
1625	576994.06	4194210.17	3.44E-04	1.16E-03	9.04E-04	5.36E-05	1.87E-04	1.43E-04	2.35E-06	1.43E-05	8.38E-06
1626	576989.6	4194191.86	3.68E-04	1.24E-03	9.66E-04	5.73E-05	2.00E-04	1.52E-04	2.51E-06	1.52E-05	8.95E-06
1627	576996.19	4194176.79	4.17E-04	1.40E-03	1.09E-03	6.49E-05	2.26E-04	1.73E-04	2.85E-06	1.73E-05	1.01E-05
1628	577002.77	4194161.72	4.59E-04	1.55E-03	1.21E-03	7.16E-05	2.49E-04	1.90E-04	3.14E-06	1.90E-05	1.12E-05
1629	577009.35	4194146.65	4.92E-04	1.65E-03	1.29E-03	7.66E-05	2.67E-04	2.04E-04	3.36E-06	2.04E-05	1.20E-05
1630	577015.93	4194131.58	5.17E-04	1.74E-03	1.36E-03	8.05E-05	2.80E-04	2.14E-04	3.53E-06	2.14E-05	1.26E-05
1631	576984.32	4194207.89	3.17E-04	1.07E-03	8.32E-04	4.94E-05	1.72E-04	1.31E-04	2.17E-06	1.31E-05	7.71E-06
1632	576980	4194189.28	3.40E-04	1.14E-03	8.93E-04	5.30E-05	1.84E-04	1.41E-04	2.32E-06	1.41E-05	8.27E-06
1633	576986.84	4194173.6	3.86E-04	1.30E-03	1.01E-03	6.02E-05	2.10E-04	1.60E-04	2.64E-06	1.60E-05	9.40E-06
1634	576993.69	4194157.93	4.26E-04	1.43E-03	1.12E-03	6.64E-05	2.31E-04	1.77E-04	2.92E-06	1.77E-05	1.04E-05
1635	577000.54	4194142.26	4.57E-04	1.54E-03	1.20E-03	7.12E-05	2.48E-04	1.90E-04	3.13E-06	1.89E-05	1.11E-05
1636	577007.38	4194126.59	4.81E-04	1.62E-03	1.26E-03	7.49E-05	2.61E-04	1.99E-04	3.29E-06	1.99E-05	1.17E-05
1637	576974.59	4194205.61	2.93E-04	9.87E-04	7.70E-04	4.57E-05	1.59E-04	1.22E-04	2.01E-06	1.21E-05	7.13E-06
1638	576970.1	4194187.37	3.13E-04	1.05E-03	8.21E-04	4.87E-05	1.70E-04	1.30E-04	2.14E-06	1.30E-05	7.61E-06
1639	576976.61	4194172.45	3.53E-04	1.19E-03	9.27E-04	5.50E-05	1.92E-04	1.46E-04	2.41E-06	1.46E-05	8.59E-06
1640	576983.13	4194157.54	3.89E-04	1.31E-03	1.02E-03	6.07E-05	2.11E-04	1.61E-04	2.66E-06	1.61E-05	9.47E-06
1641	576989.65	4194142.62	4.18E-04	1.41E-03	1.10E-03	6.51E-05	2.27E-04	1.73E-04	2.86E-06	1.73E-05	1.02E-05
1642	576996.17	4194127.7	4.41E-04	1.48E-03	1.16E-03	6.87E-05	2.39E-04	1.83E-04	3.01E-06	1.83E-05	1.07E-05
1643	576964.85	4194203.33	2.72E-04	9.15E-04	7.14E-04	4.24E-05	1.48E-04	1.13E-04	1.86E-06	1.13E-05	6.62E-06
1644	576960.48	4194184.82	2.90E-04	9.76E-04	7.62E-04	4.52E-05	1.57E-04	1.20E-04	1.98E-06	1.20E-05	7.06E-06
1645	576967.24	4194169.35	3.28E-04	1.10E-03	8.60E-04	5.11E-05	1.78E-04	1.36E-04	2.24E-06	1.36E-05	7.97E-06
1646	576974	4194153.88	3.62E-04	1.22E-03	9.51E-04	5.64E-05	1.97E-04	1.50E-04	2.48E-06	1.50E-05	8.81E-06
1647	576980.76	4194138.4	3.90E-04	1.31E-03	1.02E-03	6.08E-05	2.12E-04	1.62E-04	2.67E-06	1.62E-05	9.49E-06
1648	576987.51	4194122.93	4.11E-04	1.38E-03	1.08E-03	6.41E-05	2.23E-04	1.71E-04	2.81E-06	1.70E-05	1.00E-05
1649	576955.11	4194201.05	2.53E-04	8.51E-04	6.64E-04	3.94E-05	1.37E-04	1.05E-04	1.73E-06	1.05E-05	6.15E-06
1650	576950.6	4194182.88	2.68E-04	9.02E-04	7.04E-04	4.18E-05	1.45E-04	1.11E-04	1.83E-06	1.11E-05	6.52E-06
1651	576957.06	4194168.09	3.01E-04	1.01E-03	7.89E-04	4.68E-05	1.63E-04	1.25E-04	2.06E-06	1.25E-05	7.31E-06
1652	576963.52	4194153.3	3.32E-04	1.12E-03	8.72E-04	5.17E-05	1.80E-04	1.38E-04	2.27E-06	1.37E-05	8.07E-06
1653	576969.98	4194138.51	3.58E-04	1.21E-03	9.41E-04	5.58E-05	1.95E-04	1.49E-04	2.45E-06	1.48E-05	8.72E-06
1654	576976.44	4194123.71	3.79E-04	1.27E-03	9.94E-04	5.90E-05	2.05E-04	1.57E-04	2.59E-06	1.57E-05	9.21E-06
1655	576945.38	4194198.77	2.35E-04	7.91E-04	6.17E-04	3.66E-05	1.27E-04	9.74E-05	1.61E-06	9.73E-06	5.71E-06
1656	576940.97	4194180.34	2.49E-04	8.40E-04	6.55E-04	3.89E-05	1.35E-04	1.03E-04	1.71E-06	1.03E-05	6.07E-06
1657	576947.65	4194165.04	2.81E-04	9.44E-04	7.37E-04	4.37E-05	1.52E-04	1.16E-04	1.92E-06	1.16E-05	6.83E-06
1658	576954.34	4194149.74	3.10E-04	1.04E-03	8.15E-04	4.84E-05	1.68E-04	1.29E-04	2.12E-06	1.29E-05	7.55E-06
1659	576961.02	4194134.44	3.36E-04	1.13E-03	8.82E-04	5.23E-05	1.82E-04	1.39E-04	2.30E-06	1.39E-05	8.17E-06
1660	576935.64	4194196.49	2.19E-04	7.36E-04	5.74E-04	3.41E-05	1.19E-04	9.06E-05	1.49E-06	9.05E-06	5.32E-06
1661	576931.35	4194177.81	2.33E-04	7.84E-04	6.11E-04	3.63E-05	1.26E-04	9.65E-05	1.59E-06	9.64E-06	5.66E-06
1662	576938.25	4194162	2.63E-04	8.84E-04	6.90E-04	4.09E-05	1.43E-04	1.09E-04	1.80E-06	1.09E-05	6.39E-06
1663	576945.16	4194146.19	2.91E-04	9.78E-04	7.63E-04	4.53E-05	1.58E-04	1.21E-04	1.99E-06	1.20E-05	7.07E-06
1664	576952.07	4194130.38	3.15E-04	1.06E-03	8.28E-04	4.91E-05	1.71E-04	1.31E-04	2.16E-06	1.31E-05	7.67E-06
1665	576925.9	4194194.21	2.04E-04	6.85E-04	5.35E-04	3.17E-05	1.10E-04	8.44E-05	1.39E-06	8.43E-06	4.95E-06
1666	576921.47	4194175.86	2.17E-04	7.29E-04	5.69E-04	3.38E-05	1.18E-04	8.98E-05	1.48E-06	8.98E-06	5.27E-06
1667	576928.09	4194160.7	2.43E-04	8.19E-04	6.39E-04	3.79E-05	1.32E-04	1.01E-04	1.67E-06	1.01E-05	5.92E-06
1668	576934.71	4194145.55	2.68E-04	9.02E-04	7.04E-04	4.18E-05	1.45E-04	1.11E-04	1.83E-06	1.11E-05	6.52E-06
1669	576941.33	4194130.39	2.90E-04	9.77E-04	7.62E-04	4.52E-05	1.58E-04	1.20E-04	1.99E-06	1.20E-05	7.06E-06
1670	576961.19	4194084.93	3.32E-04	1.12E-03	8.73E-04	5.18E-05	1.80E-04	1.38E-04	2.27E-06	1.38E-05	8.09E-06

1671	576916.16	4194191.93	1.90E-04	6.40E-04	4.99E-04	2.96E-05	1.03E-04	7.88E-05	1.30E-06	7.87E-06	4.62E-06
1672	577225.42	4194274.61	9.46E-03	3.18E-02	2.48E-02	1.47E-03	5.13E-03	3.92E-03	6.47E-05	3.92E-04	2.30E-04
1673	577234.32	4194276.73	1.28E-02	4.31E-02	3.36E-02	1.99E-03	6.95E-03	5.31E-03	8.76E-05	5.30E-04	3.11E-04
1674	577216.91	4194279.86	6.98E-03	2.35E-02	1.83E-02	1.09E-03	3.79E-03	2.89E-03	4.77E-05	2.89E-04	1.70E-04
1675	577232	4194286.46	1.15E-02	3.86E-02	3.01E-02	1.79E-03	6.22E-03	4.75E-03	7.84E-05	4.75E-04	2.79E-04
1676	577214.59	4194289.59	6.04E-03	2.03E-02	1.59E-02	9.42E-04	3.28E-03	2.51E-03	4.13E-05	2.50E-04	1.47E-04
1677	577200.99	4194273.11	4.61E-03	1.55E-02	1.21E-02	7.19E-04	2.50E-03	1.91E-03	3.15E-05	1.91E-04	1.12E-04
1678	577229.67	4194296.18	9.31E-03	3.13E-02	2.45E-02	1.45E-03	5.05E-03	3.86E-03	6.37E-05	3.86E-04	2.27E-04
1679	577212.26	4194299.31	4.38E-03	1.48E-02	1.15E-02	6.83E-04	2.38E-03	1.82E-03	3.00E-05	1.82E-04	1.07E-04
1680	577199.89	4194290.37	3.49E-03	1.18E-02	9.17E-03	5.44E-04	1.89E-03	1.45E-03	2.39E-05	1.45E-04	8.49E-05
1681	577192.48	4194278.36	3.40E-03	1.14E-02	8.92E-03	5.29E-04	1.84E-03	1.41E-03	2.32E-05	1.41E-04	8.27E-05
1682	577190.02	4194263.3	3.98E-03	1.34E-02	1.04E-02	6.20E-04	2.16E-03	1.65E-03	2.72E-05	1.65E-04	9.68E-05
1683	577209.94	4194309.04	2.45E-03	8.24E-03	6.43E-03	3.81E-04	1.33E-03	1.02E-03	1.67E-05	1.01E-04	5.96E-05
1684	577197.57	4194300.1	2.41E-03	8.11E-03	6.32E-03	3.75E-04	1.31E-03	9.99E-04	1.65E-05	9.98E-05	5.86E-05
1685	577183.97	4194283.62	2.46E-03	8.29E-03	6.47E-03	3.84E-04	1.34E-03	1.02E-03	1.68E-05	1.02E-04	5.99E-05
1686	577181.51	4194268.55	3.11E-03	1.05E-02	8.18E-03	4.85E-04	1.69E-03	1.29E-03	2.13E-05	1.29E-04	7.58E-05
1687	577195.25	4194309.82	1.49E-03	5.02E-03	3.91E-03	2.32E-04	8.09E-04	6.18E-04	1.02E-05	6.18E-05	3.63E-05
1688	577182.88	4194300.88	1.45E-03	4.87E-03	3.80E-03	2.25E-04	7.85E-04	6.00E-04	9.90E-06	5.99E-05	3.52E-05
1689	577175.46	4194288.87	1.74E-03	5.86E-03	4.57E-03	2.71E-04	9.45E-04	7.22E-04	1.19E-05	7.21E-05	4.24E-05
1690	577173	4194273.8	2.37E-03	7.98E-03	6.23E-03	3.70E-04	1.29E-03	9.83E-04	1.62E-05	9.82E-05	5.77E-05
1691	577166.75	4194292.87	1.27E-03	4.29E-03	3.34E-03	1.98E-04	6.91E-04	5.28E-04	8.71E-06	5.28E-05	3.10E-05
1692	577163.88	4194275.29	1.91E-03	6.43E-03	5.02E-03	2.98E-04	1.04E-03	7.92E-04	1.31E-05	7.92E-05	4.65E-05
1693	577158.27	4194298.3	9.21E-04	3.10E-03	2.42E-03	1.44E-04	5.00E-04	3.82E-04	6.30E-06	3.82E-05	2.24E-05
1694	577155.46	4194281.08	1.41E-03	4.75E-03	3.70E-03	2.20E-04	7.65E-04	5.85E-04	9.64E-06	5.84E-05	3.43E-05
1695	577152.65	4194263.86	1.91E-03	6.42E-03	5.01E-03	2.97E-04	1.04E-03	7.91E-04	1.31E-05	7.91E-05	4.64E-05
1696	577147.02	4194286.74	1.05E-03	3.53E-03	2.76E-03	1.64E-04	5.70E-04	4.35E-04	7.18E-06	4.35E-05	2.56E-05
1697	577144.26	4194269.79	1.46E-03	4.91E-03	3.83E-03	2.27E-04	7.91E-04	6.05E-04	9.97E-06	6.04E-05	3.55E-05
1698	577138.56	4194292.31	7.87E-04	2.65E-03	2.07E-03	1.23E-04	4.27E-04	3.26E-04	5.39E-06	3.26E-05	1.92E-05
1699	577135.83	4194275.57	1.12E-03	3.76E-03	2.93E-03	1.74E-04	6.06E-04	4.63E-04	7.63E-06	4.62E-05	2.71E-05
1700	577133.1	4194258.83	1.43E-03	4.81E-03	3.76E-03	2.23E-04	7.76E-04	5.93E-04	9.78E-06	5.93E-05	3.48E-05
1701	577127.39	4194281.24	8.63E-04	2.91E-03	2.27E-03	1.34E-04	4.68E-04	3.58E-04	5.90E-06	3.58E-05	2.10E-05
1702	577124.69	4194264.67	1.13E-03	3.81E-03	2.97E-03	1.76E-04	6.14E-04	4.69E-04	7.74E-06	4.69E-05	2.75E-05
1703	577118.94	4194286.84	6.76E-04	2.27E-03	1.78E-03	1.05E-04	3.67E-04	2.80E-04	4.62E-06	2.80E-05	1.64E-05
1704	577116.26	4194270.4	8.94E-04	3.01E-03	2.35E-03	1.39E-04	4.85E-04	3.71E-04	6.11E-06	3.70E-05	2.18E-05
1705	577113.58	4194253.96	1.11E-03	3.73E-03	2.91E-03	1.73E-04	6.01E-04	4.59E-04	7.58E-06	4.59E-05	2.69E-05
1706	577108.42	4194279.76	6.69E-04	2.25E-03	1.76E-03	1.04E-04	3.63E-04	2.77E-04	4.58E-06	2.77E-05	1.63E-05
1707	577106.97	4194270.86	7.70E-04	2.59E-03	2.02E-03	1.20E-04	4.18E-04	3.19E-04	5.26E-06	3.19E-05	1.87E-05
1708	577104.07	4194253.05	9.67E-04	3.26E-03	2.54E-03	1.51E-04	5.25E-04	4.01E-04	6.61E-06	4.01E-05	2.35E-05
1709	577098.59	4194276.91	6.18E-04	2.08E-03	1.62E-03	9.63E-05	3.35E-04	2.56E-04	4.23E-06	2.56E-05	1.50E-05
1710	577097.16	4194268.12	7.04E-04	2.37E-03	1.85E-03	1.10E-04	3.82E-04	2.92E-04	4.81E-06	2.92E-05	1.71E-05
1711	577094.29	4194250.55	8.64E-04	2.91E-03	2.27E-03	1.35E-04	4.69E-04	3.58E-04	5.91E-06	3.58E-05	2.10E-05
1712	577087.36	4194265.46	6.47E-04	2.18E-03	1.70E-03	1.01E-04	3.51E-04	2.68E-04	4.43E-06	2.68E-05	1.57E-05
1713	577084.52	4194248.07	7.75E-04	2.61E-03	2.04E-03	1.21E-04	4.21E-04	3.21E-04	5.30E-06	3.21E-05	1.89E-05
1714	577077.57	4194262.85	5.94E-04	2.00E-03	1.56E-03	9.25E-05	3.22E-04	2.46E-04	4.06E-06	2.46E-05	1.44E-05
1715	577074.76	4194245.63	6.98E-04	2.35E-03	1.83E-03	1.09E-04	3.79E-04	2.89E-04	4.77E-06	2.89E-05	1.70E-05
1716	577067.78	4194260.28	5.41E-04	1.82E-03	1.42E-03	8.42E-05	2.93E-04	2.24E-04	3.70E-06	2.24E-05	1.31E-05
1717	577065	4194243.2	6.24E-04	2.10E-03	1.64E-03	9.72E-05	3.39E-04	2.59E-04	4.27E-06	2.58E-05	1.52E-05
1718	577059.39	4194266.23	4.49E-04	1.51E-03	1.18E-03	7.00E-05	2.44E-04	1.86E-04	3.07E-06	1.86E-05	1.09E-05
1719	577056.62	4194249.28	5.26E-04	1.77E-03	1.38E-03	8.20E-05	2.85E-04	2.18E-04	3.60E-06	2.18E-05	1.28E-05
1720	577050.04	4194266.3	4.01E-04	1.35E-03	1.05E-03	6.25E-05	2.18E-04	1.66E-04	2.74E-06	1.66E-05	9.76E-06
1721	577048.58	4194257.35	4.36E-04	1.47E-03	1.15E-03	6.80E-05	2.37E-04	1.81E-04	2.98E-06	1.81E-05	1.06E-05
1722	577045.66	4194239.46	5.01E-04	1.69E-03	1.32E-03	7.81E-05	2.72E-04	2.08E-04	3.43E-06	2.08E-05	1.22E-05
1723	577044.2	4194230.52	5.29E-04	1.78E-03	1.39E-03	8.25E-05	2.87E-04	2.20E-04	3.62E-06	2.19E-05	1.29E-05
1724	577040.23	4194263.61	3.66E-04	1.23E-03	9.62E-04	5.71E-05	1.99E-04	1.52E-04	2.51E-06	1.52E-05	8.91E-06
1725	577037.34	4194245.88	4.24E-04	1.43E-03	1.11E-03	6.60E-05	2.30E-04	1.76E-04	2.90E-06	1.76E-05	1.03E-05
1726	577035.9	4194237.02	4.51E-04	1.52E-03	1.19E-03	7.03E-05	2.45E-04	1.87E-04	3.09E-06	1.87E-05	1.10E-05
1727	577030.43	4194260.96	3.32E-04	1.12E-03	8.72E-04	5.18E-05	1.80E-04	1.38E-04	2.27E-06	1.38E-05	8.08E-06
1728	577027.57	4194243.38	3.83E-04	1.29E-03	1.01E-03	5.97E-05	2.08E-04	1.59E-04	2.62E-06	1.59E-05	9.33E-06
1729	577026.14	4194234.59	4.08E-04	1.37E-03	1.07E-03	6.36E-05	2.22E-04	1.69E-04	2.79E-06	1.69E-05	9.93E-06
1730	577017.8	4194240.9	3.49E-04	1.17E-03	9.16E-04	5.43E-05	1.89E-04	1.45E-04	2.38E-06	1.44E-05	8.48E-06
1731	577009.45	4194247.11	2.98E-04	1.00E-03	7.82E-04	4.64E-05	1.62E-04	1.23E-04	2.04E-06	1.23E-05	7.24E-06
1732	577006.62	4194229.78	3.39E-04	1.14E-03	8.89E-04	5.28E-05	1.84E-04	1.40E-04	2.32E-06	1.40E-05	8.24E-06

1733	576999.67	4194244.61	2.73E-04	9.20E-04	7.18E-04	4.26E-05	1.48E-04	1.13E-04	1.87E-06	1.13E-05	6.65E-06
1734	576996.87	4194227.39	3.10E-04	1.05E-03	8.15E-04	4.84E-05	1.68E-04	1.29E-04	2.12E-06	1.29E-05	7.55E-06
1735	576990.17	4194243.77	2.49E-04	8.37E-04	6.53E-04	3.87E-05	1.35E-04	1.03E-04	1.70E-06	1.03E-05	6.05E-06
1736	576988.71	4194234.8	2.67E-04	8.97E-04	7.00E-04	4.15E-05	1.45E-04	1.11E-04	1.82E-06	1.10E-05	6.48E-06
1737	576987.25	4194225.83	2.84E-04	9.56E-04	7.46E-04	4.43E-05	1.54E-04	1.18E-04	1.94E-06	1.18E-05	6.91E-06
1738	576980.39	4194241.23	2.30E-04	7.74E-04	6.04E-04	3.58E-05	1.25E-04	9.54E-05	1.57E-06	9.53E-06	5.60E-06
1739	576978.94	4194232.32	2.47E-04	8.31E-04	6.48E-04	3.85E-05	1.34E-04	1.02E-04	1.69E-06	1.02E-05	6.01E-06
1740	576976.04	4194214.52	2.79E-04	9.38E-04	7.32E-04	4.34E-05	1.51E-04	1.16E-04	1.91E-06	1.15E-05	6.78E-06
1741	576969.17	4194229.86	2.30E-04	7.74E-04	6.04E-04	3.58E-05	1.25E-04	9.53E-05	1.57E-06	9.52E-06	5.59E-06
1742	576966.29	4194212.18	2.59E-04	8.71E-04	6.79E-04	4.03E-05	1.40E-04	1.07E-04	1.77E-06	1.07E-05	6.29E-06
1743	576960.84	4194236.21	2.01E-04	6.75E-04	5.27E-04	3.12E-05	1.09E-04	8.31E-05	1.37E-06	8.31E-06	4.88E-06
1744	576957.98	4194218.63	2.28E-04	7.68E-04	5.99E-04	3.55E-05	1.24E-04	9.45E-05	1.56E-06	9.45E-06	5.55E-06
1745	577171.61	4194539.35	3.31E-04	1.12E-03	8.70E-04	5.16E-05	1.80E-04	1.37E-04	2.27E-06	1.37E-05	8.06E-06
1746	577180.51	4194541.47	3.58E-04	1.21E-03	9.41E-04	5.58E-05	1.95E-04	1.49E-04	2.45E-06	1.48E-05	8.72E-06
1747	577153.22	4194541.76	2.62E-04	8.82E-04	6.88E-04	4.08E-05	1.42E-04	1.09E-04	1.79E-06	1.09E-05	6.38E-06
1748	577146.04	4194536.58	2.39E-04	8.03E-04	6.27E-04	3.72E-05	1.30E-04	9.90E-05	1.63E-06	9.89E-06	5.81E-06
1749	576951.07	4194233.73	1.88E-04	6.32E-04	4.93E-04	2.93E-05	1.02E-04	7.79E-05	1.28E-06	7.78E-06	4.57E-06
1750	576948.22	4194216.25	2.13E-04	7.15E-04	5.58E-04	3.31E-05	1.15E-04	8.81E-05	1.45E-06	8.80E-06	5.17E-06
1751	577169.29	4194549.08	3.13E-04	1.05E-03	8.22E-04	4.88E-05	1.70E-04	1.30E-04	2.14E-06	1.30E-05	7.62E-06
1752	577178.19	4194551.2	3.36E-04	1.13E-03	8.81E-04	5.23E-05	1.82E-04	1.39E-04	2.30E-06	1.39E-05	8.16E-06
1753	577150.93	4194551.52	2.49E-04	8.37E-04	6.53E-04	3.87E-05	1.35E-04	1.03E-04	1.70E-06	1.03E-05	6.05E-06
1754	577136.66	4194541.2	2.08E-04	6.99E-04	5.46E-04	3.24E-05	1.13E-04	8.61E-05	1.42E-06	8.61E-06	5.05E-06
1755	577122.38	4194530.88	1.66E-04	5.59E-04	4.36E-04	2.59E-05	9.01E-05	6.89E-05	1.14E-06	6.88E-06	4.04E-06
1756	576941.31	4194231.27	1.76E-04	5.92E-04	4.62E-04	2.74E-05	9.54E-05	7.29E-05	1.20E-06	7.28E-06	4.28E-06
1757	576938.47	4194213.88	1.98E-04	6.67E-04	5.20E-04	3.09E-05	1.08E-04	8.22E-05	1.36E-06	8.21E-06	4.82E-06
1758	577166.97	4194558.8	2.95E-04	9.94E-04	7.76E-04	4.60E-05	1.60E-04	1.22E-04	2.02E-06	1.22E-05	7.19E-06
1759	577175.87	4194560.93	3.14E-04	1.06E-03	8.24E-04	4.89E-05	1.70E-04	1.30E-04	2.15E-06	1.30E-05	7.63E-06
1760	577148.37	4194561.07	2.34E-04	7.87E-04	6.14E-04	3.64E-05	1.27E-04	9.69E-05	1.60E-06	9.68E-06	5.69E-06
1761	577141	4194555.74	2.16E-04	7.28E-04	5.68E-04	3.37E-05	1.17E-04	8.97E-05	1.48E-06	8.96E-06	5.26E-06
1762	577126.24	4194545.08	1.77E-04	5.96E-04	4.65E-04	2.76E-05	9.62E-05	7.35E-05	1.21E-06	7.34E-06	4.31E-06
1763	577118.87	4194539.74	1.58E-04	5.31E-04	4.14E-04	2.46E-05	8.56E-05	6.54E-05	1.08E-06	6.54E-06	3.84E-06
1764	577104.12	4194529.08	1.23E-04	4.14E-04	3.23E-04	1.92E-05	6.67E-05	5.10E-05	8.41E-07	5.09E-06	2.99E-06
1765	577096.74	4194523.75	1.10E-04	3.70E-04	2.89E-04	1.71E-05	5.97E-05	4.56E-05	7.53E-07	4.56E-06	2.68E-06
1766	576931.76	4194230.15	1.63E-04	5.49E-04	4.29E-04	2.54E-05	8.86E-05	6.77E-05	1.12E-06	6.76E-06	3.97E-06
1767	576930.3	4194221.16	1.74E-04	5.86E-04	4.58E-04	2.71E-05	9.46E-05	7.22E-05	1.19E-06	7.22E-06	4.24E-06
1768	576928.83	4194212.18	1.84E-04	6.21E-04	4.84E-04	2.87E-05	1.00E-04	7.65E-05	1.26E-06	7.64E-06	4.49E-06
1769	576927.37	4194203.2	1.94E-04	6.54E-04	5.10E-04	3.03E-05	1.05E-04	8.06E-05	1.33E-06	8.05E-06	4.73E-06
1770	577155.75	4194566.4	2.51E-04	8.44E-04	6.58E-04	3.91E-05	1.36E-04	1.04E-04	1.71E-06	1.04E-05	6.10E-06
1771	577164.65	4194568.53	2.75E-04	9.26E-04	7.23E-04	4.29E-05	1.49E-04	1.14E-04	1.88E-06	1.14E-05	6.70E-06
1772	577173.55	4194570.65	2.92E-04	9.83E-04	7.67E-04	4.55E-05	1.58E-04	1.21E-04	2.00E-06	1.21E-05	7.10E-06
1773	577146.09	4194570.83	2.20E-04	7.39E-04	5.77E-04	3.42E-05	1.19E-04	9.11E-05	1.50E-06	9.10E-06	5.34E-06
1774	577138.76	4194565.53	2.05E-04	6.90E-04	5.38E-04	3.19E-05	1.11E-04	8.50E-05	1.40E-06	8.49E-06	4.99E-06
1775	577131.43	4194560.23	1.89E-04	6.36E-04	4.96E-04	2.94E-05	1.03E-04	7.83E-05	1.29E-06	7.83E-06	4.60E-06
1776	577116.77	4194549.63	1.54E-04	5.17E-04	4.03E-04	2.39E-05	8.33E-05	6.37E-05	1.05E-06	6.36E-06	3.74E-06
1777	577102.1	4194539.03	1.22E-04	4.10E-04	3.20E-04	1.90E-05	6.61E-05	5.05E-05	8.33E-07	5.04E-06	2.96E-06
1778	577094.77	4194533.73	1.09E-04	3.68E-04	2.87E-04	1.70E-05	5.94E-05	4.54E-05	7.48E-07	4.53E-06	2.66E-06
1779	577080.11	4194523.13	8.79E-05	2.96E-04	2.31E-04	1.37E-05	4.77E-05	3.64E-05	6.01E-07	3.64E-06	2.14E-06
1780	577065.45	4194512.53	7.27E-05	2.45E-04	1.91E-04	1.13E-05	3.94E-05	3.01E-05	4.97E-07	3.01E-06	1.77E-06
1781	576920.53	4194218.72	1.63E-04	5.50E-04	4.29E-04	2.55E-05	8.87E-05	6.78E-05	1.12E-06	6.77E-06	3.98E-06
1782	576919.08	4194209.79	1.73E-04	5.81E-04	4.54E-04	2.69E-05	9.37E-05	7.16E-05	1.18E-06	7.15E-06	4.20E-06
1783	577162.32	4194578.26	2.56E-04	8.61E-04	6.72E-04	3.98E-05	1.39E-04	1.06E-04	1.75E-06	1.06E-05	6.22E-06
1784	577171.22	4194580.38	2.72E-04	9.16E-04	7.15E-04	4.24E-05	1.48E-04	1.13E-04	1.86E-06	1.13E-05	6.62E-06
1785	577190.1	4194291.88	2.39E-03	8.04E-03	6.27E-03	3.72E-04	1.30E-03	9.90E-04	1.63E-05	9.89E-05	5.81E-05
1786	577165.45	4194261.78	2.55E-03	8.57E-03	6.69E-03	3.97E-04	1.38E-03	1.06E-03	1.74E-05	1.06E-04	6.20E-05
1787	577212.18	4194271.53	6.39E-03	2.15E-02	1.68E-02	9.96E-04	3.47E-03	2.65E-03	4.37E-05	2.65E-04	1.56E-04
1788	577161.78	4194221.22	3.02E-03	1.02E-02	7.93E-03	4.71E-04	1.64E-03	1.25E-03	2.07E-05	1.25E-04	7.35E-05
1789	577191.77	4194546.01	3.88E-04	1.31E-03	1.02E-03	6.05E-05	2.11E-04	1.61E-04	2.65E-06	1.61E-05	9.44E-06
1790	577201.1	4194548.24	4.20E-04	1.41E-03	1.10E-03	6.54E-05	2.28E-04	1.74E-04	2.87E-06	1.74E-05	1.02E-05
1791	577210.43	4194550.47	4.53E-04	1.52E-03	1.19E-03	7.05E-05	2.46E-04	1.88E-04	3.10E-06	1.88E-05	1.10E-05
1792	577219.76	4194552.7	4.85E-04	1.63E-03	1.27E-03	7.56E-05	2.63E-04	2.01E-04	3.32E-06	2.01E-05	1.18E-05
1793	577229.09	4194554.93	5.19E-04	1.75E-03	1.36E-03	8.08E-05	2.81E-04	2.15E-04	3.55E-06	2.15E-05	1.26E-05
1794	577238.42	4194557.16	5.51E-04	1.86E-03	1.45E-03	8.59E-05	2.99E-04	2.29E-04	3.77E-06	2.28E-05	1.34E-05

1795	577247.75	4194559.39	5.82E-04	1.96E-03	1.53E-03	9.08E-05	3.16E-04	2.41E-04	3.98E-06	2.41E-05	1.42E-05
1796	577189.45	4194555.74	3.60E-04	1.21E-03	9.45E-04	5.61E-05	1.95E-04	1.49E-04	2.46E-06	1.49E-05	8.76E-06
1797	577198.78	4194557.97	3.86E-04	1.30E-03	1.01E-03	6.01E-05	2.09E-04	1.60E-04	2.64E-06	1.60E-05	9.38E-06
1798	577208.11	4194560.2	4.15E-04	1.40E-03	1.09E-03	6.47E-05	2.25E-04	1.72E-04	2.84E-06	1.72E-05	1.01E-05
1799	577217.44	4194562.43	4.44E-04	1.49E-03	1.17E-03	6.92E-05	2.41E-04	1.84E-04	3.04E-06	1.84E-05	1.08E-05
1800	577226.77	4194564.66	4.73E-04	1.59E-03	1.24E-03	7.37E-05	2.57E-04	1.96E-04	3.24E-06	1.96E-05	1.15E-05
1801	577236.1	4194566.89	5.03E-04	1.69E-03	1.32E-03	7.84E-05	2.73E-04	2.09E-04	3.44E-06	2.08E-05	1.22E-05
1802	577245.43	4194569.12	5.32E-04	1.79E-03	1.40E-03	8.28E-05	2.88E-04	2.20E-04	3.64E-06	2.20E-05	1.29E-05
1803	577187.12	4194565.46	3.34E-04	1.12E-03	8.77E-04	5.20E-05	1.81E-04	1.38E-04	2.28E-06	1.38E-05	8.13E-06
1804	577196.45	4194567.69	3.56E-04	1.20E-03	9.34E-04	5.54E-05	1.93E-04	1.47E-04	2.43E-06	1.47E-05	8.65E-06
1805	577205.78	4194569.92	3.82E-04	1.28E-03	1.00E-03	5.95E-05	2.07E-04	1.58E-04	2.61E-06	1.58E-05	9.29E-06
1806	577215.11	4194572.15	4.08E-04	1.37E-03	1.07E-03	6.35E-05	2.21E-04	1.69E-04	2.79E-06	1.69E-05	9.92E-06
1807	577224.44	4194574.38	4.33E-04	1.46E-03	1.14E-03	6.75E-05	2.35E-04	1.80E-04	2.96E-06	1.79E-05	1.05E-05
1808	577233.77	4194576.61	4.60E-04	1.55E-03	1.21E-03	7.17E-05	2.50E-04	1.91E-04	3.15E-06	1.91E-05	1.12E-05
1809	577243.1	4194578.84	4.87E-04	1.64E-03	1.28E-03	7.58E-05	2.64E-04	2.02E-04	3.33E-06	2.02E-05	1.18E-05
1810	577184.8	4194575.19	3.11E-04	1.05E-03	8.16E-04	4.84E-05	1.69E-04	1.29E-04	2.12E-06	1.29E-05	7.56E-06
1811	577194.13	4194577.42	3.29E-04	1.11E-03	8.64E-04	5.13E-05	1.79E-04	1.36E-04	2.25E-06	1.36E-05	8.00E-06
1812	577203.46	4194579.65	3.52E-04	1.19E-03	9.26E-04	5.49E-05	1.91E-04	1.46E-04	2.41E-06	1.46E-05	8.57E-06
1813	577212.79	4194581.88	3.76E-04	1.26E-03	9.86E-04	5.85E-05	2.04E-04	1.56E-04	2.57E-06	1.56E-05	9.14E-06
1814	577222.12	4194584.11	3.98E-04	1.34E-03	1.05E-03	6.20E-05	2.16E-04	1.65E-04	2.72E-06	1.65E-05	9.68E-06
1815	577231.45	4194586.34	4.22E-04	1.42E-03	1.11E-03	6.58E-05	2.29E-04	1.75E-04	2.89E-06	1.75E-05	1.03E-05
1816	577240.78	4194588.57	4.46E-04	1.50E-03	1.17E-03	6.95E-05	2.42E-04	1.85E-04	3.05E-06	1.85E-05	1.09E-05
1817	577182.47	4194584.91	2.90E-04	9.74E-04	7.60E-04	4.51E-05	1.57E-04	1.20E-04	1.98E-06	1.20E-05	7.04E-06
1818	577191.8	4194587.14	3.06E-04	1.03E-03	8.04E-04	4.77E-05	1.66E-04	1.27E-04	2.09E-06	1.27E-05	7.45E-06
1819	577201.13	4194589.37	3.26E-04	1.10E-03	8.57E-04	5.08E-05	1.77E-04	1.35E-04	2.23E-06	1.35E-05	7.94E-06
1820	577210.46	4194591.6	3.47E-04	1.17E-03	9.11E-04	5.40E-05	1.88E-04	1.44E-04	2.37E-06	1.44E-05	8.44E-06
1821	577219.79	4194593.83	3.66E-04	1.23E-03	9.62E-04	5.71E-05	1.99E-04	1.52E-04	2.51E-06	1.52E-05	8.91E-06
1822	577229.12	4194596.06	3.87E-04	1.30E-03	1.02E-03	6.03E-05	2.10E-04	1.61E-04	2.65E-06	1.60E-05	9.42E-06
1823	577238.45	4194598.29	4.09E-04	1.38E-03	1.07E-03	6.37E-05	2.22E-04	1.70E-04	2.80E-06	1.69E-05	9.95E-06
1824	577144.65	4194582.54	2.08E-04	7.00E-04	5.46E-04	3.24E-05	1.13E-04	8.62E-05	1.42E-06	8.61E-06	5.06E-06
1825	577137.15	4194577.13	1.95E-04	6.57E-04	5.13E-04	3.04E-05	1.06E-04	8.10E-05	1.34E-06	8.09E-06	4.75E-06
1826	577129.64	4194571.72	1.81E-04	6.07E-04	4.74E-04	2.81E-05	9.79E-05	7.48E-05	1.23E-06	7.48E-06	4.39E-06
1827	577122.13	4194566.31	1.65E-04	5.54E-04	4.32E-04	2.56E-05	8.93E-05	6.82E-05	1.13E-06	6.82E-06	4.00E-06
1828	577114.62	4194560.9	1.49E-04	5.01E-04	3.91E-04	2.32E-05	8.08E-05	6.17E-05	1.02E-06	6.17E-06	3.62E-06
1829	577107.12	4194555.49	1.34E-04	4.50E-04	3.51E-04	2.08E-05	7.25E-05	5.54E-05	9.14E-07	5.54E-06	3.25E-06
1830	577099.61	4194550.08	1.20E-04	4.03E-04	3.15E-04	1.87E-05	6.51E-05	4.97E-05	8.20E-07	4.97E-06	2.92E-06
1831	577092.1	4194544.67	1.08E-04	3.63E-04	2.83E-04	1.68E-05	5.85E-05	4.47E-05	7.37E-07	4.46E-06	2.62E-06
1832	577084.59	4194539.26	9.65E-05	3.25E-04	2.53E-04	1.50E-05	5.24E-05	4.00E-05	6.60E-07	4.00E-06	2.35E-06
1833	577077.09	4194533.85	8.64E-05	2.91E-04	2.27E-04	1.35E-05	4.69E-05	3.58E-05	5.91E-07	3.58E-06	2.10E-06
1834	577069.58	4194528.44	7.78E-05	2.62E-04	2.04E-04	1.21E-05	4.22E-05	3.23E-05	5.32E-07	3.22E-06	1.89E-06
1835	577062.07	4194523.03	7.09E-05	2.39E-04	1.86E-04	1.11E-05	3.85E-05	2.94E-05	4.85E-07	2.94E-06	1.73E-06
1836	577054.57	4194517.62	6.53E-05	2.20E-04	1.71E-04	1.02E-05	3.54E-05	2.71E-05	4.46E-07	2.70E-06	1.59E-06
1837	577047.06	4194512.21	6.07E-05	2.04E-04	1.59E-04	9.46E-06	3.29E-05	2.52E-05	4.15E-07	2.51E-06	1.48E-06
1838	577039.55	4194506.79	5.70E-05	1.92E-04	1.50E-04	8.89E-06	3.10E-05	2.36E-05	3.90E-07	2.36E-06	1.39E-06
1839	577032.04	4194501.38	5.41E-05	1.82E-04	1.42E-04	8.44E-06	2.94E-05	2.25E-05	3.70E-07	2.24E-06	1.32E-06
1840	577152.16	4194587.95	2.20E-04	7.41E-04	5.78E-04	3.43E-05	1.19E-04	9.13E-05	1.51E-06	9.12E-06	5.36E-06
1841	577161.49	4194590.18	2.40E-04	8.08E-04	6.30E-04	3.74E-05	1.30E-04	9.95E-05	1.64E-06	9.95E-06	5.84E-06
1842	577170.82	4194592.41	2.56E-04	8.63E-04	6.73E-04	4.00E-05	1.39E-04	1.06E-04	1.75E-06	1.06E-05	6.24E-06
1843	577180.15	4194594.64	2.72E-04	9.14E-04	7.13E-04	4.23E-05	1.47E-04	1.13E-04	1.86E-06	1.12E-05	6.61E-06
1844	577189.48	4194596.87	2.86E-04	9.64E-04	7.52E-04	4.46E-05	1.55E-04	1.19E-04	1.96E-06	1.19E-05	6.97E-06
1845	577198.81	4194599.1	3.03E-04	1.02E-03	7.95E-04	4.72E-05	1.64E-04	1.26E-04	2.07E-06	1.25E-05	7.37E-06
1846	577208.14	4194601.33	3.21E-04	1.08E-03	8.43E-04	5.00E-05	1.74E-04	1.33E-04	2.19E-06	1.33E-05	7.81E-06
1847	577217.47	4194603.56	3.38E-04	1.14E-03	8.88E-04	5.27E-05	1.84E-04	1.40E-04	2.31E-06	1.40E-05	8.23E-06
1848	577226.8	4194605.79	3.56E-04	1.20E-03	9.35E-04	5.55E-05	1.93E-04	1.48E-04	2.43E-06	1.47E-05	8.66E-06
1849	577236.13	4194608.02	3.76E-04	1.27E-03	9.87E-04	5.86E-05	2.04E-04	1.56E-04	2.57E-06	1.56E-05	9.15E-06
1850	577142.06	4194592.07	1.96E-04	6.61E-04	5.16E-04	3.06E-05	1.07E-04	8.14E-05	1.34E-06	8.13E-06	4.78E-06
1851	577134.28	4194586.47	1.85E-04	6.24E-04	4.87E-04	2.89E-05	1.01E-04	7.68E-05	1.27E-06	7.68E-06	4.51E-06
1852	577126.51	4194580.86	1.71E-04	5.74E-04	4.48E-04	2.66E-05	9.25E-05	7.07E-05	1.17E-06	7.06E-06	4.15E-06
1853	577118.73	4194575.26	1.56E-04	5.24E-04	4.09E-04	2.43E-05	8.45E-05	6.46E-05	1.06E-06	6.45E-06	3.79E-06
1854	577110.96	4194569.66	1.41E-04	4.75E-04	3.71E-04	2.20E-05	7.66E-05	5.85E-05	9.66E-07	5.85E-06	3.43E-06
1855	577103.18	4194564.05	1.27E-04	4.28E-04	3.34E-04	1.98E-05	6.90E-05	5.27E-05	8.69E-07	5.27E-06	3.09E-06
1856	577095.41	4194558.45	1.15E-04	3.86E-04	3.01E-04	1.79E-05	6.23E-05	4.76E-05	7.85E-07	4.75E-06	2.79E-06

1857	577087.63	4194552.85	1.03E-04	3.46E-04	2.70E-04	1.60E-05	5.58E-05	4.27E-05	7.04E-07	4.26E-06	2.50E-06
1858	577072.08	4194541.64	8.24E-05	2.77E-04	2.16E-04	1.28E-05	4.47E-05	3.42E-05	5.63E-07	3.41E-06	2.00E-06
1859	577064.31	4194536.04	7.45E-05	2.51E-04	1.96E-04	1.16E-05	4.04E-05	3.09E-05	5.10E-07	3.09E-06	1.81E-06
1860	577056.53	4194530.43	6.76E-05	2.27E-04	1.77E-04	1.05E-05	3.67E-05	2.80E-05	4.62E-07	2.80E-06	1.64E-06
1861	577048.76	4194524.83	6.17E-05	2.08E-04	1.62E-04	9.61E-06	3.35E-05	2.56E-05	4.22E-07	2.56E-06	1.50E-06
1862	577040.98	4194519.23	5.71E-05	1.92E-04	1.50E-04	8.90E-06	3.10E-05	2.37E-05	3.91E-07	2.37E-06	1.39E-06
1863	577033.21	4194513.62	5.34E-05	1.80E-04	1.40E-04	8.32E-06	2.90E-05	2.21E-05	3.65E-07	2.21E-06	1.30E-06
1864	577025.43	4194508.02	5.05E-05	1.70E-04	1.33E-04	7.87E-06	2.74E-05	2.10E-05	3.46E-07	2.09E-06	1.23E-06
1865	577017.65	4194502.42	4.86E-05	1.64E-04	1.28E-04	7.57E-06	2.64E-05	2.01E-05	3.32E-07	2.01E-06	1.18E-06
1866	577009.88	4194496.81	4.75E-05	1.60E-04	1.25E-04	7.41E-06	2.58E-05	1.97E-05	3.25E-07	1.97E-06	1.16E-06
1867	577002.1	4194491.21	4.68E-05	1.57E-04	1.23E-04	7.28E-06	2.54E-05	1.94E-05	3.20E-07	1.94E-06	1.14E-06
1868	577149.83	4194597.68	2.08E-04	7.00E-04	5.46E-04	3.24E-05	1.13E-04	8.62E-05	1.42E-06	8.61E-06	5.06E-06
1869	577159.16	4194599.91	2.26E-04	7.61E-04	5.94E-04	3.52E-05	1.23E-04	9.37E-05	1.55E-06	9.37E-06	5.50E-06
1870	577168.49	4194602.14	2.42E-04	8.16E-04	6.36E-04	3.78E-05	1.31E-04	1.00E-04	1.66E-06	1.00E-05	5.89E-06
1871	577177.82	4194604.37	2.56E-04	8.60E-04	6.71E-04	3.98E-05	1.39E-04	1.06E-04	1.75E-06	1.06E-05	6.22E-06
1872	577187.15	4194606.6	2.69E-04	9.04E-04	7.05E-04	4.18E-05	1.46E-04	1.11E-04	1.84E-06	1.11E-05	6.53E-06
1873	577196.48	4194608.83	2.82E-04	9.49E-04	7.41E-04	4.40E-05	1.53E-04	1.17E-04	1.93E-06	1.17E-05	6.86E-06
1874	577205.81	4194611.06	2.98E-04	1.00E-03	7.83E-04	4.65E-05	1.62E-04	1.24E-04	2.04E-06	1.23E-05	7.25E-06
1875	577215.14	4194613.29	3.13E-04	1.05E-03	8.23E-04	4.88E-05	1.70E-04	1.30E-04	2.14E-06	1.30E-05	7.62E-06
1876	577224.47	4194615.52	3.28E-04	1.10E-03	8.62E-04	5.11E-05	1.78E-04	1.36E-04	2.24E-06	1.36E-05	7.98E-06
1877	577233.8	4194617.75	3.47E-04	1.17E-03	9.11E-04	5.40E-05	1.88E-04	1.44E-04	2.37E-06	1.44E-05	8.44E-06
1878	577139.8	4194601.85	1.86E-04	6.27E-04	4.89E-04	2.90E-05	1.01E-04	7.72E-05	1.27E-06	7.71E-06	4.53E-06
1879	577132.09	4194596.29	1.76E-04	5.91E-04	4.61E-04	2.73E-05	9.53E-05	7.28E-05	1.20E-06	7.27E-06	4.27E-06
1880	577124.39	4194590.74	1.63E-04	5.48E-04	4.28E-04	2.54E-05	8.84E-05	6.75E-05	1.11E-06	6.74E-06	3.96E-06
1881	577116.68	4194585.18	1.50E-04	5.05E-04	3.94E-04	2.34E-05	8.14E-05	6.22E-05	1.03E-06	6.22E-06	3.65E-06
1882	577108.97	4194579.63	1.37E-04	4.61E-04	3.60E-04	2.14E-05	7.44E-05	5.68E-05	9.38E-07	5.68E-06	3.33E-06
1883	577101.26	4194574.07	1.25E-04	4.20E-04	3.28E-04	1.94E-05	6.77E-05	5.17E-05	8.53E-07	5.17E-06	3.03E-06
1884	577093.55	4194568.51	1.13E-04	3.82E-04	2.98E-04	1.77E-05	6.16E-05	4.71E-05	7.76E-07	4.70E-06	2.76E-06
1885	577085.84	4194562.96	1.02E-04	3.44E-04	2.69E-04	1.59E-05	5.55E-05	4.24E-05	7.00E-07	4.24E-06	2.49E-06
1886	577078.14	4194557.4	9.16E-05	3.08E-04	2.41E-04	1.43E-05	4.97E-05	3.80E-05	6.27E-07	3.80E-06	2.23E-06
1887	577070.43	4194551.85	8.24E-05	2.77E-04	2.16E-04	1.28E-05	4.47E-05	3.42E-05	5.64E-07	3.42E-06	2.01E-06
1888	577062.72	4194546.29	7.47E-05	2.52E-04	1.96E-04	1.16E-05	4.06E-05	3.10E-05	5.11E-07	3.10E-06	1.82E-06
1889	577055.01	4194540.74	6.78E-05	2.28E-04	1.78E-04	1.06E-05	3.68E-05	2.81E-05	4.64E-07	2.81E-06	1.65E-06
1890	577047.3	4194535.18	6.17E-05	2.08E-04	1.62E-04	9.62E-06	3.35E-05	2.56E-05	4.22E-07	2.56E-06	1.50E-06
1891	577039.59	4194529.63	5.65E-05	1.90E-04	1.48E-04	8.80E-06	3.07E-05	2.34E-05	3.86E-07	2.34E-06	1.37E-06
1892	577031.89	4194524.07	5.22E-05	1.76E-04	1.37E-04	8.13E-06	2.83E-05	2.16E-05	3.57E-07	2.16E-06	1.27E-06
1893	577024.18	4194518.52	4.90E-05	1.65E-04	1.29E-04	7.63E-06	2.66E-05	2.03E-05	3.35E-07	2.03E-06	1.19E-06
1894	577016.47	4194512.96	4.65E-05	1.57E-04	1.22E-04	7.25E-06	2.53E-05	1.93E-05	3.18E-07	1.93E-06	1.13E-06
1895	577008.76	4194507.41	4.51E-05	1.52E-04	1.18E-04	7.02E-06	2.45E-05	1.87E-05	3.08E-07	1.87E-06	1.10E-06
1896	577001.05	4194501.85	4.43E-05	1.49E-04	1.16E-04	6.90E-06	2.40E-05	1.84E-05	3.03E-07	1.83E-06	1.08E-06
1897	576993.34	4194496.3	4.40E-05	1.48E-04	1.16E-04	6.86E-06	2.39E-05	1.83E-05	3.01E-07	1.82E-06	1.07E-06
1898	576985.64	4194490.74	4.41E-05	1.48E-04	1.16E-04	6.87E-06	2.39E-05	1.83E-05	3.02E-07	1.83E-06	1.07E-06
1899	576977.93	4194485.19	4.49E-05	1.51E-04	1.18E-04	7.00E-06	2.44E-05	1.86E-05	3.07E-07	1.86E-06	1.09E-06
1900	576970.22	4194479.63	4.63E-05	1.56E-04	1.22E-04	7.21E-06	2.51E-05	1.92E-05	3.17E-07	1.92E-06	1.13E-06
1901	577147.51	4194607.4	1.97E-04	6.62E-04	5.16E-04	3.06E-05	1.07E-04	8.15E-05	1.35E-06	8.15E-06	4.78E-06
1902	577156.84	4194609.63	2.13E-04	7.18E-04	5.60E-04	3.32E-05	1.16E-04	8.85E-05	1.46E-06	8.84E-06	5.19E-06
1903	577166.17	4194611.86	2.30E-04	7.73E-04	6.03E-04	3.58E-05	1.25E-04	9.52E-05	1.57E-06	9.51E-06	5.59E-06
1904	577175.5	4194614.09	2.41E-04	8.13E-04	6.34E-04	3.76E-05	1.31E-04	1.00E-04	1.65E-06	1.00E-05	5.87E-06
1905	577184.83	4194616.32	2.53E-04	8.51E-04	6.64E-04	3.94E-05	1.37E-04	1.05E-04	1.73E-06	1.05E-05	6.15E-06
1906	577194.16	4194618.55	2.63E-04	8.86E-04	6.92E-04	4.10E-05	1.43E-04	1.09E-04	1.80E-06	1.09E-05	6.41E-06
1907	577203.49	4194620.78	2.78E-04	9.35E-04	7.29E-04	4.33E-05	1.51E-04	1.15E-04	1.90E-06	1.15E-05	6.76E-06
1908	577212.82	4194623.01	2.92E-04	9.82E-04	7.66E-04	4.54E-05	1.58E-04	1.21E-04	1.99E-06	1.21E-05	7.10E-06
1909	577222.15	4194625.24	3.05E-04	1.03E-03	8.01E-04	4.76E-05	1.66E-04	1.27E-04	2.09E-06	1.26E-05	7.42E-06
1910	577231.48	4194627.47	3.22E-04	1.08E-03	8.46E-04	5.02E-05	1.75E-04	1.34E-04	2.20E-06	1.33E-05	7.83E-06
1911	577137.54	4194611.62	1.77E-04	5.95E-04	4.64E-04	2.75E-05	9.59E-05	7.33E-05	1.21E-06	7.32E-06	4.30E-06
1912	577129.89	4194606.11	1.66E-04	5.60E-04	4.37E-04	2.59E-05	9.03E-05	6.90E-05	1.14E-06	6.90E-06	4.05E-06
1913	577122.25	4194600.6	1.55E-04	5.23E-04	4.08E-04	2.42E-05	8.43E-05	6.44E-05	1.06E-06	6.43E-06	3.78E-06
1914	577114.6	4194595.08	1.44E-04	4.85E-04	3.78E-04	2.25E-05	7.82E-05	5.98E-05	9.86E-07	5.97E-06	3.51E-06
1915	577106.95	4194589.57	1.33E-04	4.47E-04	3.49E-04	2.07E-05	7.21E-05	5.51E-05	9.09E-07	5.51E-06	3.23E-06
1916	577099.31	4194584.06	1.22E-04	4.12E-04	3.21E-04	1.91E-05	6.64E-05	5.07E-05	8.37E-07	5.07E-06	2.98E-06
1917	577091.66	4194578.55	1.12E-04	3.77E-04	2.94E-04	1.75E-05	6.09E-05	4.65E-05	7.67E-07	4.65E-06	2.73E-06
1918	577084.01	4194573.04	1.02E-04	3.43E-04	2.68E-04	1.59E-05	5.53E-05	4.22E-05	6.97E-07	4.22E-06	2.48E-06

1919	577076.37	4194567.53	9.18E-05	3.09E-04	2.41E-04	1.43E-05	4.98E-05	3.81E-05	6.28E-07	3.80E-06	2.23E-06
1920	577068.72	4194562.02	8.29E-05	2.79E-04	2.18E-04	1.29E-05	4.50E-05	3.44E-05	5.67E-07	3.43E-06	2.02E-06
1921	577061.07	4194556.51	7.48E-05	2.52E-04	1.96E-04	1.17E-05	4.06E-05	3.10E-05	5.11E-07	3.10E-06	1.82E-06
1922	577053.43	4194551	6.79E-05	2.29E-04	1.78E-04	1.06E-05	3.69E-05	2.82E-05	4.64E-07	2.81E-06	1.65E-06
1923	577045.78	4194545.49	6.18E-05	2.08E-04	1.62E-04	9.63E-06	3.35E-05	2.56E-05	4.23E-07	2.56E-06	1.50E-06
1924	577038.13	4194539.98	5.66E-05	1.91E-04	1.49E-04	8.82E-06	3.07E-05	2.35E-05	3.87E-07	2.35E-06	1.38E-06
1925	577030.49	4194534.47	5.21E-05	1.75E-04	1.37E-04	8.11E-06	2.83E-05	2.16E-05	3.56E-07	2.16E-06	1.27E-06
1926	577022.84	4194528.96	4.81E-05	1.62E-04	1.26E-04	7.49E-06	2.61E-05	1.99E-05	3.29E-07	1.99E-06	1.17E-06
1927	577015.19	4194523.44	4.50E-05	1.52E-04	1.18E-04	7.01E-06	2.44E-05	1.87E-05	3.08E-07	1.86E-06	1.10E-06
1928	577007.55	4194517.93	4.33E-05	1.46E-04	1.14E-04	6.74E-06	2.35E-05	1.79E-05	2.96E-07	1.79E-06	1.05E-06
1929	576999.9	4194512.42	4.21E-05	1.42E-04	1.11E-04	6.57E-06	2.29E-05	1.75E-05	2.88E-07	1.75E-06	1.03E-06
1930	576992.25	4194506.91	4.15E-05	1.40E-04	1.09E-04	6.46E-06	2.25E-05	1.72E-05	2.84E-07	1.72E-06	1.01E-06
1931	576984.61	4194501.4	4.13E-05	1.39E-04	1.08E-04	6.44E-06	2.24E-05	1.71E-05	2.83E-07	1.71E-06	1.01E-06
1932	576976.96	4194495.89	4.17E-05	1.40E-04	1.10E-04	6.50E-06	2.26E-05	1.73E-05	2.85E-07	1.73E-06	1.02E-06
1933	576969.31	4194490.38	4.26E-05	1.43E-04	1.12E-04	6.63E-06	2.31E-05	1.77E-05	2.91E-07	1.76E-06	1.04E-06
1934	576961.67	4194484.87	4.39E-05	1.48E-04	1.15E-04	6.84E-06	2.38E-05	1.82E-05	3.00E-07	1.82E-06	1.07E-06
1935	577145.19	4194617.13	1.86E-04	6.27E-04	4.89E-04	2.90E-05	1.01E-04	7.72E-05	1.27E-06	7.72E-06	4.53E-06
1936	577154.52	4194619.36	2.01E-04	6.77E-04	5.28E-04	3.14E-05	1.09E-04	8.34E-05	1.38E-06	8.34E-06	4.89E-06
1937	577163.85	4194621.59	2.17E-04	7.30E-04	5.70E-04	3.38E-05	1.18E-04	9.00E-05	1.48E-06	8.99E-06	5.28E-06
1938	577173.18	4194623.82	2.27E-04	7.65E-04	5.97E-04	3.54E-05	1.23E-04	9.42E-05	1.55E-06	9.41E-06	5.53E-06
1939	577182.51	4194626.05	2.37E-04	7.98E-04	6.23E-04	3.70E-05	1.29E-04	9.83E-05	1.62E-06	9.83E-06	5.77E-06
1940	577191.84	4194628.28	2.47E-04	8.30E-04	6.48E-04	3.84E-05	1.34E-04	1.02E-04	1.69E-06	1.02E-05	6.00E-06
1941	577201.17	4194630.51	2.59E-04	8.72E-04	6.81E-04	4.04E-05	1.41E-04	1.07E-04	1.77E-06	1.07E-05	6.31E-06
1942	577210.5	4194632.74	2.72E-04	9.16E-04	7.15E-04	4.24E-05	1.48E-04	1.13E-04	1.86E-06	1.13E-05	6.62E-06
1943	577219.83	4194634.97	2.85E-04	9.58E-04	7.48E-04	4.44E-05	1.55E-04	1.18E-04	1.95E-06	1.18E-05	6.93E-06
1944	577229.16	4194637.2	2.99E-04	1.01E-03	7.86E-04	4.67E-05	1.62E-04	1.24E-04	2.05E-06	1.24E-05	7.28E-06
1945	577135.27	4194621.38	1.68E-04	5.64E-04	4.40E-04	2.61E-05	9.10E-05	6.95E-05	1.15E-06	6.95E-06	4.08E-06
1946	577127.68	4194615.91	1.58E-04	5.33E-04	4.16E-04	2.47E-05	8.59E-05	6.56E-05	1.08E-06	6.56E-06	3.85E-06
1947	577120.09	4194610.44	1.48E-04	4.99E-04	3.90E-04	2.31E-05	8.05E-05	6.15E-05	1.01E-06	6.15E-06	3.61E-06
1948	577112.5	4194604.97	1.39E-04	4.66E-04	3.64E-04	2.16E-05	7.52E-05	5.74E-05	9.48E-07	5.74E-06	3.37E-06
1949	577104.91	4194599.5	1.29E-04	4.33E-04	3.38E-04	2.00E-05	6.98E-05	5.33E-05	8.80E-07	5.33E-06	3.13E-06
1950	577097.32	4194594.03	1.20E-04	4.03E-04	3.14E-04	1.86E-05	6.49E-05	4.96E-05	8.18E-07	4.96E-06	2.91E-06
1951	577089.73	4194588.57	1.11E-04	3.72E-04	2.91E-04	1.72E-05	6.00E-05	4.59E-05	7.57E-07	4.58E-06	2.69E-06
1952	577082.14	4194583.1	1.01E-04	3.41E-04	2.66E-04	1.58E-05	5.50E-05	4.20E-05	6.93E-07	4.20E-06	2.46E-06
1953	577074.55	4194577.63	9.19E-05	3.09E-04	2.41E-04	1.43E-05	4.99E-05	3.81E-05	6.29E-07	3.81E-06	2.24E-06
1954	577066.96	4194572.16	8.37E-05	2.82E-04	2.20E-04	1.30E-05	4.54E-05	3.47E-05	5.73E-07	3.47E-06	2.04E-06
1955	577059.37	4194566.69	7.59E-05	2.56E-04	1.99E-04	1.18E-05	4.12E-05	3.15E-05	5.19E-07	3.14E-06	1.85E-06
1956	577051.78	4194561.22	6.85E-05	2.31E-04	1.80E-04	1.07E-05	3.72E-05	2.84E-05	4.69E-07	2.84E-06	1.67E-06
1957	577044.19	4194555.75	6.18E-05	2.08E-04	1.62E-04	9.63E-06	3.35E-05	2.56E-05	4.23E-07	2.56E-06	1.50E-06
1958	577036.61	4194550.28	5.68E-05	1.91E-04	1.49E-04	8.85E-06	3.08E-05	2.36E-05	3.89E-07	2.35E-06	1.38E-06
1959	577029.02	4194544.81	5.23E-05	1.76E-04	1.37E-04	8.15E-06	2.84E-05	2.17E-05	3.58E-07	2.17E-06	1.27E-06
1960	577021.43	4194539.34	4.83E-05	1.63E-04	1.27E-04	7.52E-06	2.62E-05	2.00E-05	3.30E-07	2.00E-06	1.17E-06
1961	577013.84	4194533.87	4.48E-05	1.51E-04	1.18E-04	6.98E-06	2.43E-05	1.86E-05	3.06E-07	1.85E-06	1.09E-06
1962	577006.25	4194528.4	4.23E-05	1.42E-04	1.11E-04	6.58E-06	2.29E-05	1.75E-05	2.89E-07	1.75E-06	1.03E-06
1963	576998.66	4194522.93	4.06E-05	1.37E-04	1.07E-04	6.33E-06	2.20E-05	1.68E-05	2.78E-07	1.68E-06	9.88E-07
1964	576991.07	4194517.46	3.96E-05	1.33E-04	1.04E-04	6.18E-06	2.15E-05	1.64E-05	2.71E-07	1.64E-06	9.64E-07
1965	576983.48	4194511.99	3.91E-05	1.32E-04	1.03E-04	6.09E-06	2.12E-05	1.62E-05	2.67E-07	1.62E-06	9.51E-07
1966	576975.89	4194506.52	3.91E-05	1.32E-04	1.03E-04	6.09E-06	2.12E-05	1.62E-05	2.67E-07	1.62E-06	9.50E-07
1967	576968.3	4194501.05	3.95E-05	1.33E-04	1.04E-04	6.16E-06	2.14E-05	1.64E-05	2.70E-07	1.64E-06	9.62E-07
1968	576960.71	4194495.58	4.04E-05	1.36E-04	1.06E-04	6.30E-06	2.19E-05	1.68E-05	2.76E-07	1.67E-06	9.83E-07
1969	576953.12	4194490.11	4.17E-05	1.40E-04	1.09E-04	6.49E-06	2.26E-05	1.73E-05	2.85E-07	1.73E-06	1.01E-06
1970	576943.98	4194475.41	4.58E-05	1.54E-04	1.20E-04	7.13E-06	2.48E-05	1.90E-05	3.13E-07	1.90E-06	1.11E-06
1971	577142.86	4194626.85	1.76E-04	5.92E-04	4.62E-04	2.74E-05	9.54E-05	7.29E-05	1.20E-06	7.28E-06	4.28E-06
1972	577152.19	4194629.08	1.89E-04	6.37E-04	4.97E-04	2.95E-05	1.03E-04	7.84E-05	1.29E-06	7.84E-06	4.60E-06
1973	577161.52	4194631.31	2.03E-04	6.84E-04	5.34E-04	3.17E-05	1.10E-04	8.43E-05	1.39E-06	8.42E-06	4.95E-06
1974	577170.85	4194633.54	2.14E-04	7.20E-04	5.62E-04	3.33E-05	1.16E-04	8.87E-05	1.46E-06	8.86E-06	5.20E-06
1975	577180.18	4194635.77	2.23E-04	7.51E-04	5.86E-04	3.48E-05	1.21E-04	9.25E-05	1.53E-06	9.24E-06	5.43E-06
1976	577189.51	4194638	2.32E-04	7.80E-04	6.09E-04	3.61E-05	1.26E-04	9.61E-05	1.59E-06	9.61E-06	5.64E-06
1977	577198.84	4194640.23	2.42E-04	8.16E-04	6.37E-04	3.78E-05	1.32E-04	1.01E-04	1.66E-06	1.00E-05	5.90E-06
1978	577208.17	4194642.46	2.54E-04	8.56E-04	6.68E-04	3.96E-05	1.38E-04	1.06E-04	1.74E-06	1.05E-05	6.19E-06
1979	577217.5	4194644.69	2.66E-04	8.96E-04	6.99E-04	4.15E-05	1.44E-04	1.10E-04	1.82E-06	1.10E-05	6.47E-06
1980	577226.83	4194646.92	2.79E-04	9.39E-04	7.33E-04	4.35E-05	1.51E-04	1.16E-04	1.91E-06	1.16E-05	6.79E-06

1981	577268.82	4194557.27	6.91E-04	2.33E-03	1.81E-03	1.08E-04	3.75E-04	2.87E-04	4.73E-06	2.86E-05	1.68E-05
1982	577259.79	4194558.18	6.43E-04	2.17E-03	1.69E-03	1.00E-04	3.49E-04	2.67E-04	4.40E-06	2.67E-05	1.57E-05
1983	577289.88	4194564.63	7.41E-04	2.49E-03	1.95E-03	1.15E-04	4.02E-04	3.07E-04	5.07E-06	3.07E-05	1.80E-05
1984	577278.02	4194565.83	6.84E-04	2.30E-03	1.80E-03	1.07E-04	3.71E-04	2.84E-04	4.68E-06	2.83E-05	1.66E-05
1985	577266.17	4194567.02	6.28E-04	2.12E-03	1.65E-03	9.79E-05	3.41E-04	2.61E-04	4.30E-06	2.60E-05	1.53E-05
1986	577308.54	4194572.25	7.66E-04	2.58E-03	2.01E-03	1.19E-04	4.16E-04	3.18E-04	5.24E-06	3.17E-05	1.86E-05
1987	577296.64	4194573.44	7.20E-04	2.42E-03	1.89E-03	1.12E-04	3.91E-04	2.98E-04	4.92E-06	2.98E-05	1.75E-05
1988	577284.74	4194574.64	6.65E-04	2.24E-03	1.75E-03	1.04E-04	3.61E-04	2.76E-04	4.55E-06	2.75E-05	1.62E-05
1989	577272.85	4194575.84	6.14E-04	2.07E-03	1.61E-03	9.57E-05	3.33E-04	2.55E-04	4.20E-06	2.54E-05	1.49E-05
1990	577260.95	4194577.04	5.61E-04	1.89E-03	1.47E-03	8.74E-05	3.05E-04	2.33E-04	3.84E-06	2.32E-05	1.37E-05
1991	577333.31	4194579.24	7.69E-04	2.59E-03	2.02E-03	1.20E-04	4.17E-04	3.19E-04	5.26E-06	3.19E-05	1.87E-05
1992	577321.37	4194580.44	7.51E-04	2.53E-03	1.97E-03	1.17E-04	4.07E-04	3.11E-04	5.13E-06	3.11E-05	1.83E-05
1993	577309.43	4194581.65	7.18E-04	2.42E-03	1.89E-03	1.12E-04	3.90E-04	2.98E-04	4.91E-06	2.98E-05	1.75E-05
1994	577297.49	4194582.85	6.74E-04	2.27E-03	1.77E-03	1.05E-04	3.66E-04	2.80E-04	4.61E-06	2.79E-05	1.64E-05
1995	577285.55	4194584.05	6.23E-04	2.10E-03	1.64E-03	9.71E-05	3.38E-04	2.58E-04	4.26E-06	2.58E-05	1.52E-05
1996	577273.61	4194585.26	5.75E-04	1.94E-03	1.51E-03	8.96E-05	3.12E-04	2.39E-04	3.93E-06	2.38E-05	1.40E-05
1997	577261.67	4194586.46	5.26E-04	1.77E-03	1.38E-03	8.20E-05	2.86E-04	2.18E-04	3.60E-06	2.18E-05	1.28E-05
1998	577252.72	4194587.36	4.90E-04	1.65E-03	1.29E-03	7.63E-05	2.66E-04	2.03E-04	3.35E-06	2.03E-05	1.19E-05
1999	577358.23	4194586.22	7.11E-04	2.39E-03	1.87E-03	1.11E-04	3.86E-04	2.95E-04	4.86E-06	2.95E-05	1.73E-05
2000	577349.25	4194587.13	7.24E-04	2.44E-03	1.90E-03	1.13E-04	3.93E-04	3.00E-04	4.95E-06	3.00E-05	1.76E-05
2001	577340.27	4194588.03	7.28E-04	2.45E-03	1.91E-03	1.13E-04	3.95E-04	3.02E-04	4.98E-06	3.02E-05	1.77E-05
2002	577328.29	4194589.24	7.16E-04	2.41E-03	1.88E-03	1.12E-04	3.89E-04	2.97E-04	4.90E-06	2.97E-05	1.74E-05
2003	577319.31	4194590.14	6.98E-04	2.35E-03	1.83E-03	1.09E-04	3.79E-04	2.89E-04	4.77E-06	2.89E-05	1.70E-05
2004	577310.32	4194591.05	6.73E-04	2.27E-03	1.77E-03	1.05E-04	3.65E-04	2.79E-04	4.61E-06	2.79E-05	1.64E-05
2005	577301.34	4194591.95	6.44E-04	2.17E-03	1.69E-03	1.00E-04	3.49E-04	2.67E-04	4.40E-06	2.67E-05	1.57E-05
2006	577289.36	4194593.16	5.98E-04	2.01E-03	1.57E-03	9.31E-05	3.24E-04	2.48E-04	4.09E-06	2.48E-05	1.45E-05
2007	577280.38	4194594.07	5.62E-04	1.89E-03	1.48E-03	8.76E-05	3.05E-04	2.33E-04	3.84E-06	2.33E-05	1.37E-05
2008	577271.39	4194594.97	5.28E-04	1.78E-03	1.39E-03	8.23E-05	2.87E-04	2.19E-04	3.61E-06	2.19E-05	1.29E-05
2009	577259.42	4194596.18	4.82E-04	1.62E-03	1.27E-03	7.51E-05	2.62E-04	2.00E-04	3.30E-06	2.00E-05	1.17E-05
2010	577250.43	4194597.09	4.49E-04	1.51E-03	1.18E-03	6.99E-05	2.44E-04	1.86E-04	3.07E-06	1.86E-05	1.09E-05
2011	577377.3	4194593.79	6.30E-04	2.12E-03	1.65E-03	9.81E-05	3.42E-04	2.61E-04	4.31E-06	2.61E-05	1.53E-05
2012	577368.29	4194594.7	6.54E-04	2.20E-03	1.72E-03	1.02E-04	3.55E-04	2.71E-04	4.47E-06	2.71E-05	1.59E-05
2013	577359.28	4194595.61	6.71E-04	2.26E-03	1.76E-03	1.05E-04	3.64E-04	2.78E-04	4.59E-06	2.78E-05	1.63E-05
2014	577350.27	4194596.51	6.83E-04	2.30E-03	1.79E-03	1.06E-04	3.70E-04	2.83E-04	4.67E-06	2.83E-05	1.66E-05
2015	577341.26	4194597.42	6.85E-04	2.31E-03	1.80E-03	1.07E-04	3.72E-04	2.84E-04	4.69E-06	2.84E-05	1.67E-05
2016	577332.24	4194598.33	6.77E-04	2.28E-03	1.78E-03	1.06E-04	3.68E-04	2.81E-04	4.63E-06	2.81E-05	1.65E-05
2017	577323.23	4194599.24	6.62E-04	2.23E-03	1.74E-03	1.03E-04	3.59E-04	2.74E-04	4.53E-06	2.74E-05	1.61E-05
2018	577314.22	4194600.15	6.40E-04	2.15E-03	1.68E-03	9.97E-05	3.47E-04	2.65E-04	4.38E-06	2.65E-05	1.56E-05
2019	577305.21	4194601.06	6.14E-04	2.07E-03	1.61E-03	9.56E-05	3.33E-04	2.54E-04	4.20E-06	2.54E-05	1.49E-05
2020	577296.2	4194601.96	5.84E-04	1.96E-03	1.53E-03	9.09E-05	3.17E-04	2.42E-04	3.99E-06	2.42E-05	1.42E-05
2021	577287.19	4194602.87	5.51E-04	1.85E-03	1.45E-03	8.58E-05	2.99E-04	2.28E-04	3.77E-06	2.28E-05	1.34E-05
2022	577278.18	4194603.78	5.18E-04	1.74E-03	1.36E-03	8.07E-05	2.81E-04	2.15E-04	3.54E-06	2.15E-05	1.26E-05
2023	577269.17	4194604.69	4.86E-04	1.64E-03	1.28E-03	7.57E-05	2.64E-04	2.01E-04	3.32E-06	2.01E-05	1.18E-05
2024	577260.16	4194605.6	4.53E-04	1.52E-03	1.19E-03	7.06E-05	2.46E-04	1.88E-04	3.10E-06	1.88E-05	1.10E-05
2025	577251.15	4194606.51	4.22E-04	1.42E-03	1.11E-03	6.57E-05	2.29E-04	1.75E-04	2.88E-06	1.75E-05	1.03E-05
2026	577399.47	4194601.05	5.29E-04	1.78E-03	1.39E-03	8.25E-05	2.87E-04	2.19E-04	3.62E-06	2.19E-05	1.29E-05
2027	577390.44	4194601.96	5.60E-04	1.88E-03	1.47E-03	8.73E-05	3.04E-04	2.32E-04	3.83E-06	2.32E-05	1.36E-05
2028	577381.4	4194602.87	5.89E-04	1.98E-03	1.55E-03	9.17E-05	3.19E-04	2.44E-04	4.03E-06	2.44E-05	1.43E-05
2029	577372.36	4194603.78	6.13E-04	2.06E-03	1.61E-03	9.56E-05	3.33E-04	2.54E-04	4.20E-06	2.54E-05	1.49E-05
2030	577363.33	4194604.69	6.30E-04	2.12E-03	1.66E-03	9.82E-05	3.42E-04	2.61E-04	4.31E-06	2.61E-05	1.53E-05
2031	577354.29	4194605.6	6.42E-04	2.16E-03	1.69E-03	1.00E-04	3.48E-04	2.66E-04	4.39E-06	2.66E-05	1.56E-05
2032	577345.25	4194606.51	6.47E-04	2.18E-03	1.70E-03	1.01E-04	3.51E-04	2.68E-04	4.43E-06	2.68E-05	1.57E-05
2033	577336.22	4194607.42	6.42E-04	2.16E-03	1.68E-03	1.00E-04	3.48E-04	2.66E-04	4.39E-06	2.66E-05	1.56E-05
2034	577327.18	4194608.33	6.28E-04	2.11E-03	1.65E-03	9.79E-05	3.41E-04	2.60E-04	4.30E-06	2.60E-05	1.53E-05
2035	577318.14	4194609.24	6.09E-04	2.05E-03	1.60E-03	9.49E-05	3.30E-04	2.52E-04	4.16E-06	2.52E-05	1.48E-05
2036	577309.11	4194610.15	5.86E-04	1.97E-03	1.54E-03	9.13E-05	3.18E-04	2.43E-04	4.01E-06	2.43E-05	1.42E-05
2037	577300.07	4194611.07	5.59E-04	1.88E-03	1.47E-03	8.71E-05	3.03E-04	2.32E-04	3.82E-06	2.32E-05	1.36E-05
2038	577291.04	4194611.98	5.29E-04	1.78E-03	1.39E-03	8.25E-05	2.87E-04	2.20E-04	3.62E-06	2.19E-05	1.29E-05
2039	577282	4194612.89	4.98E-04	1.68E-03	1.31E-03	7.77E-05	2.70E-04	2.07E-04	3.41E-06	2.06E-05	1.21E-05
2040	577272.96	4194613.8	4.68E-04	1.58E-03	1.23E-03	7.29E-05	2.54E-04	1.94E-04	3.20E-06	1.94E-05	1.14E-05
2041	577263.93	4194614.71	4.37E-04	1.47E-03	1.15E-03	6.81E-05	2.37E-04	1.81E-04	2.99E-06	1.81E-05	1.06E-05
2042	577254.89	4194615.62	4.06E-04	1.37E-03	1.07E-03	6.33E-05	2.21E-04	1.69E-04	2.78E-06	1.68E-05	9.89E-06

2043	577245.85	4194616.53	3.80E-04	1.28E-03	9.98E-04	5.92E-05	2.06E-04	1.58E-04	2.60E-06	1.57E-05	9.25E-06
2044	577412.92	4194609.18	4.60E-04	1.55E-03	1.21E-03	7.17E-05	2.50E-04	1.91E-04	3.15E-06	1.91E-05	1.12E-05
2045	577401.02	4194610.38	5.02E-04	1.69E-03	1.32E-03	7.82E-05	2.73E-04	2.08E-04	3.43E-06	2.08E-05	1.22E-05
2046	577389.12	4194611.58	5.40E-04	1.82E-03	1.42E-03	8.41E-05	2.93E-04	2.24E-04	3.69E-06	2.24E-05	1.31E-05
2047	577377.22	4194612.78	5.73E-04	1.93E-03	1.50E-03	8.93E-05	3.11E-04	2.38E-04	3.92E-06	2.37E-05	1.39E-05
2048	577365.33	4194613.98	5.96E-04	2.01E-03	1.56E-03	9.28E-05	3.23E-04	2.47E-04	4.08E-06	2.47E-05	1.45E-05
2049	577353.43	4194615.18	6.08E-04	2.05E-03	1.60E-03	9.48E-05	3.30E-04	2.52E-04	4.16E-06	2.52E-05	1.48E-05
2050	577341.53	4194616.38	6.10E-04	2.05E-03	1.60E-03	9.50E-05	3.31E-04	2.53E-04	4.17E-06	2.53E-05	1.48E-05
2051	577329.63	4194617.58	5.95E-04	2.00E-03	1.56E-03	9.27E-05	3.23E-04	2.47E-04	4.07E-06	2.47E-05	1.45E-05
2052	577317.74	4194618.78	5.71E-04	1.92E-03	1.50E-03	8.90E-05	3.10E-04	2.37E-04	3.91E-06	2.37E-05	1.39E-05
2053	577305.84	4194619.98	5.41E-04	1.82E-03	1.42E-03	8.43E-05	2.94E-04	2.24E-04	3.70E-06	2.24E-05	1.32E-05
2054	577293.94	4194621.18	5.07E-04	1.71E-03	1.33E-03	7.90E-05	2.75E-04	2.10E-04	3.47E-06	2.10E-05	1.23E-05
2055	577282.04	4194622.37	4.70E-04	1.58E-03	1.23E-03	7.32E-05	2.55E-04	1.95E-04	3.21E-06	1.95E-05	1.14E-05
2056	577270.15	4194623.57	4.32E-04	1.45E-03	1.13E-03	6.73E-05	2.34E-04	1.79E-04	2.95E-06	1.79E-05	1.05E-05
2057	577258.25	4194624.77	3.94E-04	1.33E-03	1.04E-03	6.15E-05	2.14E-04	1.64E-04	2.70E-06	1.63E-05	9.60E-06
2058	577246.35	4194625.97	3.61E-04	1.21E-03	9.47E-04	5.62E-05	1.96E-04	1.50E-04	2.47E-06	1.49E-05	8.77E-06
2059	577429.02	4194617.05	3.89E-04	1.31E-03	1.02E-03	6.05E-05	2.11E-04	1.61E-04	2.66E-06	1.61E-05	9.45E-06
2060	577417.09	4194618.25	4.28E-04	1.44E-03	1.12E-03	6.66E-05	2.32E-04	1.77E-04	2.92E-06	1.77E-05	1.04E-05
2061	577405.16	4194619.46	4.67E-04	1.57E-03	1.23E-03	7.28E-05	2.54E-04	1.94E-04	3.20E-06	1.94E-05	1.14E-05
2062	577396.21	4194620.36	4.95E-04	1.67E-03	1.30E-03	7.71E-05	2.68E-04	2.05E-04	3.38E-06	2.05E-05	1.20E-05
2063	577384.28	4194621.56	5.28E-04	1.78E-03	1.39E-03	8.23E-05	2.87E-04	2.19E-04	3.61E-06	2.19E-05	1.29E-05
2064	577372.34	4194622.76	5.57E-04	1.87E-03	1.46E-03	8.68E-05	3.02E-04	2.31E-04	3.81E-06	2.31E-05	1.35E-05
2065	577363.4	4194623.67	5.69E-04	1.92E-03	1.49E-03	8.87E-05	3.09E-04	2.36E-04	3.89E-06	2.36E-05	1.38E-05
2066	577351.46	4194624.87	5.78E-04	1.95E-03	1.52E-03	9.01E-05	3.14E-04	2.40E-04	3.95E-06	2.40E-05	1.41E-05
2067	577339.53	4194626.07	5.76E-04	1.94E-03	1.51E-03	8.97E-05	3.12E-04	2.39E-04	3.94E-06	2.39E-05	1.40E-05
2068	577327.6	4194627.27	5.59E-04	1.88E-03	1.47E-03	8.71E-05	3.03E-04	2.32E-04	3.82E-06	2.32E-05	1.36E-05
2069	577318.65	4194628.18	5.41E-04	1.82E-03	1.42E-03	8.42E-05	2.93E-04	2.24E-04	3.70E-06	2.24E-05	1.32E-05
2070	577306.72	4194629.38	5.13E-04	1.73E-03	1.35E-03	7.99E-05	2.78E-04	2.13E-04	3.51E-06	2.12E-05	1.25E-05
2071	577294.78	4194630.58	4.81E-04	1.62E-03	1.26E-03	7.49E-05	2.61E-04	1.99E-04	3.29E-06	1.99E-05	1.17E-05
2072	577285.83	4194631.48	4.55E-04	1.53E-03	1.19E-03	7.09E-05	2.47E-04	1.89E-04	3.11E-06	1.88E-05	1.11E-05
2073	577273.9	4194632.69	4.20E-04	1.41E-03	1.10E-03	6.54E-05	2.28E-04	1.74E-04	2.87E-06	1.74E-05	1.02E-05
2074	577261.97	4194633.89	3.84E-04	1.29E-03	1.01E-03	5.99E-05	2.08E-04	1.59E-04	2.63E-06	1.59E-05	9.34E-06
2075	577253.02	4194634.79	3.58E-04	1.21E-03	9.41E-04	5.58E-05	1.94E-04	1.49E-04	2.45E-06	1.48E-05	8.72E-06
2076	577241.09	4194635.99	3.28E-04	1.10E-03	8.62E-04	5.11E-05	1.78E-04	1.36E-04	2.24E-06	1.36E-05	7.98E-06
2077	577440.54	4194621.63	3.47E-04	1.17E-03	9.11E-04	5.40E-05	1.88E-04	1.44E-04	2.37E-06	1.44E-05	8.44E-06
2078	577430.24	4194626.42	3.69E-04	1.24E-03	9.68E-04	5.74E-05	2.00E-04	1.53E-04	2.52E-06	1.53E-05	8.97E-06
2079	577421.27	4194627.32	3.96E-04	1.33E-03	1.04E-03	6.17E-05	2.15E-04	1.64E-04	2.71E-06	1.64E-05	9.63E-06
2080	577409.3	4194628.53	4.33E-04	1.46E-03	1.14E-03	6.75E-05	2.35E-04	1.80E-04	2.96E-06	1.79E-05	1.05E-05
2081	577400.33	4194629.44	4.60E-04	1.55E-03	1.21E-03	7.17E-05	2.50E-04	1.91E-04	3.15E-06	1.91E-05	1.12E-05
2082	577388.36	4194630.64	4.93E-04	1.66E-03	1.30E-03	7.69E-05	2.68E-04	2.05E-04	3.37E-06	2.04E-05	1.20E-05
2083	577379.39	4194631.55	5.16E-04	1.74E-03	1.35E-03	8.04E-05	2.80E-04	2.14E-04	3.53E-06	2.14E-05	1.26E-05
2084	577367.42	4194632.75	5.37E-04	1.81E-03	1.41E-03	8.37E-05	2.92E-04	2.23E-04	3.67E-06	2.23E-05	1.31E-05
2085	577358.45	4194633.66	5.46E-04	1.84E-03	1.43E-03	8.50E-05	2.96E-04	2.26E-04	3.73E-06	2.26E-05	1.33E-05
2086	577346.48	4194634.86	5.50E-04	1.85E-03	1.44E-03	8.57E-05	2.98E-04	2.28E-04	3.76E-06	2.28E-05	1.34E-05
2087	577337.51	4194635.77	5.43E-04	1.83E-03	1.43E-03	8.47E-05	2.95E-04	2.25E-04	3.72E-06	2.25E-05	1.32E-05
2088	577325.55	4194636.97	5.25E-04	1.77E-03	1.38E-03	8.18E-05	2.85E-04	2.18E-04	3.59E-06	2.17E-05	1.28E-05
2089	577316.57	4194637.88	5.06E-04	1.70E-03	1.33E-03	7.88E-05	2.75E-04	2.10E-04	3.46E-06	2.10E-05	1.23E-05
2090	577304.61	4194639.08	4.79E-04	1.61E-03	1.26E-03	7.46E-05	2.60E-04	1.99E-04	3.28E-06	1.98E-05	1.17E-05
2091	577295.63	4194639.99	4.56E-04	1.54E-03	1.20E-03	7.11E-05	2.48E-04	1.89E-04	3.12E-06	1.89E-05	1.11E-05
2092	577283.67	4194641.19	4.24E-04	1.43E-03	1.11E-03	6.61E-05	2.30E-04	1.76E-04	2.90E-06	1.76E-05	1.03E-05
2093	577274.69	4194642.1	3.99E-04	1.34E-03	1.05E-03	6.22E-05	2.17E-04	1.66E-04	2.73E-06	1.65E-05	9.72E-06
2094	577265.72	4194643	3.74E-04	1.26E-03	9.83E-04	5.83E-05	2.03E-04	1.55E-04	2.56E-06	1.55E-05	9.11E-06
2095	577253.75	4194644.21	3.42E-04	1.15E-03	8.97E-04	5.32E-05	1.85E-04	1.42E-04	2.34E-06	1.41E-05	8.31E-06
2096	577244.78	4194645.11	3.20E-04	1.08E-03	8.40E-04	4.98E-05	1.74E-04	1.33E-04	2.19E-06	1.33E-05	7.78E-06

			1673	577234.32	4194276.73
	Max Yr	**2**	2.15E-01	3.47E-02	2.65E-03
	Row	**19**	T2	T2L3	T4
		Col	**3**	**4**	**5**
		Adjustment	**100%**	**16%**	**1%**
	UTM X	UTM Y	Year 2	Year 2	Year 2
1	577330.1	4194345	1.27E-01	2.05E-02	1.57E-03
2	577339.3	4194349	9.46E-02	1.53E-02	1.16E-03
3	577348.5	4194353	7.24E-02	1.17E-02	8.91E-04
4	577334.4	4194332	1.55E-01	2.49E-02	1.90E-03
5	577343.9	4194335	1.13E-01	1.83E-02	1.40E-03
6	577353.5	4194338	8.53E-02	1.38E-02	1.05E-03
7	577363	4194341	6.65E-02	1.07E-02	8.19E-04
8	577372.5	4194345	5.34E-02	8.61E-03	6.58E-04
9	577380	4194354	4.22E-02	6.81E-03	5.20E-04
10	577389.5	4194357	3.64E-02	5.88E-03	4.49E-04
11	577346.4	4194326	1.29E-01	2.09E-02	1.59E-03
12	577356	4194329	9.67E-02	1.56E-02	1.19E-03
13	577365.7	4194332	7.52E-02	1.21E-02	9.26E-04
14	577375.4	4194334	6.03E-02	9.72E-03	7.42E-04
15	577383.1	4194344	4.66E-02	7.51E-03	5.74E-04
16	577392.7	4194347	3.99E-02	6.43E-03	4.91E-04
17	577402.4	4194349	3.46E-02	5.58E-03	4.26E-04
18	577412.1	4194352	3.11E-02	5.01E-03	3.82E-04
19	577421.7	4194354	2.80E-02	4.52E-03	3.45E-04
20	577431.4	4194357	2.53E-02	4.08E-03	3.12E-04
21	577441	4194360	2.29E-02	3.70E-03	2.82E-04
22	577450.7	4194362	2.08E-02	3.35E-03	2.56E-04
23	577462.2	4194358	1.95E-02	3.15E-03	2.41E-04
24	577471.9	4194360	1.77E-02	2.85E-03	2.18E-04
25	577481.6	4194363	1.60E-02	2.58E-03	1.97E-04
26	577491.2	4194366	1.46E-02	2.35E-03	1.80E-04
27	577500.9	4194368	1.33E-02	2.15E-03	1.64E-04
28	577510.5	4194371	1.22E-02	1.97E-03	1.51E-04
29	577520.2	4194373	1.12E-02	1.81E-03	1.38E-04
30	577337.1	4194322	1.81E-01	2.92E-02	2.23E-03
31	577348.4	4194317	1.46E-01	2.36E-02	1.80E-03
32	577358.2	4194319	1.10E-01	1.77E-02	1.35E-03
33	577368	4194321	8.48E-02	1.37E-02	1.04E-03
34	577377.8	4194323	6.77E-02	1.09E-02	8.33E-04
35	577386.1	4194332	5.22E-02	8.42E-03	6.43E-04
36	577395.9	4194335	4.41E-02	7.11E-03	5.43E-04
37	577405.6	4194337	3.81E-02	6.14E-03	4.69E-04
38	577415.4	4194339	3.41E-02	5.49E-03	4.19E-04
39	577425.2	4194341	3.05E-02	4.92E-03	3.76E-04
40	577434.1	4194346	2.69E-02	4.34E-03	3.31E-04
41	577436.5	4194336	2.84E-02	4.58E-03	3.50E-04
42	577443.9	4194349	2.43E-02	3.91E-03	2.99E-04
43	577446.3	4194338	2.56E-02	4.12E-03	3.15E-04
44	577453.6	4194351	2.20E-02	3.54E-03	2.70E-04
45	577456	4194340	2.31E-02	3.72E-03	2.84E-04

46	577464.4	4194349	2.03E-02	3.27E-03	2.49E-04
47	577474.1	4194351	1.83E-02	2.95E-03	2.25E-04
48	577483.9	4194353	1.66E-02	2.67E-03	2.04E-04
49	577493.7	4194355	1.51E-02	2.43E-03	1.86E-04
50	577503.5	4194357	1.38E-02	2.23E-03	1.70E-04
51	577513.3	4194359	1.27E-02	2.04E-03	1.56E-04
52	577523.1	4194361	1.16E-02	1.88E-03	1.43E-04
53	577531.3	4194370	1.05E-02	1.69E-03	1.29E-04
54	577534.3	4194356	1.09E-02	1.76E-03	1.34E-04
55	577541.1	4194372	9.67E-03	1.56E-03	1.19E-04
56	577544.1	4194358	1.00E-02	1.61E-03	1.23E-04
57	577550.8	4194374	8.93E-03	1.44E-03	1.10E-04
58	577553.9	4194360	9.23E-03	1.49E-03	1.14E-04
59	577561.1	4194374	8.30E-03	1.34E-03	1.02E-04
60	577563.7	4194362	8.50E-03	1.37E-03	1.05E-04
61	577570.8	4194377	7.68E-03	1.24E-03	9.45E-05
62	577573.5	4194365	7.84E-03	1.26E-03	9.65E-05
63	577580.6	4194379	7.13E-03	1.15E-03	8.78E-05
64	577583.3	4194367	7.26E-03	1.17E-03	8.94E-05
65	577590.3	4194381	6.70E-03	1.08E-03	8.25E-05
66	577593.1	4194369	6.85E-03	1.10E-03	8.43E-05
67	577600	4194383	6.34E-03	1.02E-03	7.80E-05
68	577602.8	4194371	6.48E-03	1.04E-03	7.97E-05
69	577609.8	4194385	5.99E-03	9.66E-04	7.38E-05
70	577612.6	4194373	6.13E-03	9.89E-04	7.55E-05
71	577619.5	4194388	5.68E-03	9.16E-04	6.99E-05
72	577622.4	4194375	5.82E-03	9.39E-04	7.17E-05
73	577340.3	4194307	2.18E-01	3.51E-02	2.68E-03
74	577343.8	4194291	2.30E-01	3.71E-02	2.83E-03
75	577351.9	4194301	1.65E-01	2.66E-02	2.03E-03
76	577355.3	4194284	1.66E-01	2.67E-02	2.04E-03
77	577361.6	4194303	1.24E-01	2.00E-02	1.53E-03
78	577365.1	4194287	1.28E-01	2.07E-02	1.58E-03
79	577371.4	4194305	9.66E-02	1.56E-02	1.19E-03
80	577374.9	4194289	1.02E-01	1.64E-02	1.25E-03
81	577381.2	4194307	7.71E-02	1.24E-02	9.49E-04
82	577384.7	4194291	8.24E-02	1.33E-02	1.01E-03
83	577389.2	4194317	5.89E-02	9.49E-03	7.24E-04
84	577392.7	4194301	6.57E-02	1.06E-02	8.08E-04
85	577399	4194319	4.88E-02	7.87E-03	6.00E-04
86	577402.5	4194303	5.45E-02	8.79E-03	6.71E-04
87	577408.8	4194322	4.20E-02	6.78E-03	5.17E-04
88	577412.3	4194305	4.66E-02	7.51E-03	5.73E-04
89	577418.6	4194324	3.71E-02	5.99E-03	4.57E-04
90	577422.1	4194307	4.04E-02	6.51E-03	4.97E-04
91	577428.4	4194326	3.30E-02	5.31E-03	4.06E-04
92	577431.9	4194309	3.53E-02	5.70E-03	4.35E-04
93	577439.9	4194320	3.03E-02	4.89E-03	3.74E-04
94	577443.4	4194303	3.20E-02	5.16E-03	3.94E-04
95	577449.7	4194322	2.72E-02	4.39E-03	3.35E-04
96	577453.2	4194305	2.83E-02	4.56E-03	3.48E-04
97	577459.5	4194324	2.44E-02	3.93E-03	3.00E-04

98	577463	4194307	2.51E-02	4.05E-03	3.09E-04
99	577467.5	4194334	2.13E-02	3.44E-03	2.62E-04
100	577471	4194318	2.22E-02	3.58E-03	2.73E-04
101	577477.3	4194336	1.92E-02	3.10E-03	2.36E-04
102	577480.8	4194320	1.99E-02	3.21E-03	2.45E-04
103	577487.1	4194338	1.74E-02	2.80E-03	2.14E-04
104	577490.6	4194322	1.80E-02	2.90E-03	2.22E-04
105	577496.9	4194340	1.58E-02	2.55E-03	1.94E-04
106	577500.3	4194324	1.64E-02	2.64E-03	2.01E-04
107	577506.6	4194342	1.44E-02	2.32E-03	1.77E-04
108	577510.1	4194326	1.49E-02	2.41E-03	1.84E-04
109	577516.4	4194344	1.32E-02	2.13E-03	1.62E-04
110	577519.9	4194328	1.37E-02	2.20E-03	1.68E-04
111	577526.2	4194346	1.21E-02	1.95E-03	1.49E-04
112	577529.7	4194330	1.25E-02	2.02E-03	1.54E-04
113	577537.7	4194340	1.13E-02	1.82E-03	1.39E-04
114	577541.2	4194324	1.16E-02	1.86E-03	1.42E-04
115	577547.5	4194342	1.03E-02	1.67E-03	1.27E-04
116	577551	4194326	1.06E-02	1.70E-03	1.30E-04
117	577557.3	4194344	9.49E-03	1.53E-03	1.17E-04
118	577560.8	4194328	9.67E-03	1.56E-03	1.19E-04
119	577567.1	4194347	8.70E-03	1.40E-03	1.07E-04
120	577570.6	4194330	8.86E-03	1.43E-03	1.09E-04
121	577576.9	4194349	8.00E-03	1.29E-03	9.85E-05
122	577580.3	4194332	8.13E-03	1.31E-03	1.00E-04
123	577586.6	4194351	7.43E-03	1.20E-03	9.15E-05
124	577590.1	4194334	7.58E-03	1.22E-03	9.33E-05
125	577596.4	4194353	7.01E-03	1.13E-03	8.63E-05
126	577599.9	4194336	7.14E-03	1.15E-03	8.79E-05
127	577606.2	4194355	6.63E-03	1.07E-03	8.16E-05
128	577609.7	4194338	6.74E-03	1.09E-03	8.30E-05
129	577616	4194357	6.28E-03	1.01E-03	7.73E-05
130	577619.5	4194340	6.41E-03	1.03E-03	7.89E-05
131	577625.8	4194359	5.97E-03	9.63E-04	7.35E-05
132	577629.3	4194343	6.11E-03	9.86E-04	7.52E-05
133	577342.9	4194268	2.18E-01	3.52E-02	2.68E-03
134	577314.3	4194245	3.12E-01	5.03E-02	3.84E-03
135	577305.3	4194243	3.51E-01	5.66E-02	4.32E-03
136	577296.2	4194240	3.78E-01	6.09E-02	4.65E-03
137	577344	4194250	1.70E-01	2.74E-02	2.09E-03
138	577351.4	4194262	1.64E-01	2.64E-02	2.02E-03
139	577316.7	4194235	2.31E-01	3.73E-02	2.85E-03
140	577307.6	4194233	2.53E-01	4.08E-02	3.11E-03
141	577298.6	4194231	2.68E-01	4.32E-02	3.29E-03
142	577346.3	4194241	1.42E-01	2.29E-02	1.75E-03
143	577359.9	4194257	1.27E-01	2.05E-02	1.57E-03
144	577362.5	4194272	1.34E-01	2.16E-02	1.65E-03
145	577319	4194225	1.79E-01	2.88E-02	2.20E-03
146	577310	4194223	1.92E-01	3.09E-02	2.36E-03
147	577301	4194221	2.01E-01	3.25E-02	2.48E-03
148	577352.4	4194234	1.16E-01	1.87E-02	1.43E-03
149	577359.7	4194239	1.08E-01	1.73E-02	1.32E-03

150	577368.6	4194253	1.03E-01	1.66E-02	1.27E-03
151	577370.2	4194262	1.07E-01	1.72E-02	1.31E-03
152	577330.4	4194218	1.33E-01	2.15E-02	1.64E-03
153	577321.4	4194216	1.45E-01	2.33E-02	1.78E-03
154	577312.4	4194213	1.53E-01	2.47E-02	1.88E-03
155	577303.3	4194211	1.59E-01	2.56E-02	1.95E-03
156	577294.3	4194209	1.59E-01	2.57E-02	1.96E-03
157	577285.3	4194207	1.55E-01	2.51E-02	1.91E-03
158	577354.1	4194224	9.98E-02	1.61E-02	1.23E-03
159	577368.4	4194234	8.80E-02	1.42E-02	1.08E-03
160	577377	4194248	8.48E-02	1.37E-02	1.04E-03
161	577380.1	4194265	8.91E-02	1.44E-02	1.10E-03
162	577323.8	4194206	1.19E-01	1.92E-02	1.46E-03
163	577314.7	4194204	1.25E-01	2.02E-02	1.54E-03
164	577305.7	4194202	1.28E-01	2.06E-02	1.58E-03
165	577296.7	4194199	1.27E-01	2.06E-02	1.57E-03
166	577287.6	4194197	1.24E-01	2.00E-02	1.52E-03
167	577356.1	4194213	8.63E-02	1.39E-02	1.06E-03
168	577370	4194224	7.79E-02	1.26E-02	9.59E-04
169	577385.4	4194242	7.11E-02	1.15E-02	8.74E-04
170	577388.5	4194259	7.43E-02	1.20E-02	9.15E-04
171	577391.5	4194276	7.41E-02	1.20E-02	9.12E-04
172	577326.1	4194196	9.92E-02	1.60E-02	1.22E-03
173	577317.1	4194194	1.03E-01	1.67E-02	1.27E-03
174	577308.1	4194192	1.05E-01	1.70E-02	1.29E-03
175	577299	4194190	1.04E-01	1.68E-02	1.28E-03
176	577290	4194187	1.01E-01	1.63E-02	1.25E-03
177	577358.1	4194204	7.50E-02	1.21E-02	9.23E-04
178	577371.8	4194213	6.89E-02	1.11E-02	8.48E-04
179	577385.5	4194223	6.18E-02	9.97E-03	7.61E-04
180	577393.9	4194237	6.02E-02	9.71E-03	7.41E-04
181	577396.8	4194253	6.30E-02	1.02E-02	7.76E-04
182	577399.8	4194270	6.35E-02	1.02E-02	7.82E-04
183	577402.8	4194287	6.03E-02	9.72E-03	7.42E-04
184	577360.2	4194194	6.57E-02	1.06E-02	8.08E-04
185	577373.8	4194203	6.11E-02	9.86E-03	7.53E-04
186	577387.3	4194213	5.56E-02	8.97E-03	6.84E-04
187	577402.3	4194231	5.16E-02	8.33E-03	6.36E-04
188	577405.3	4194248	5.41E-02	8.73E-03	6.66E-04
189	577408.2	4194264	5.48E-02	8.84E-03	6.75E-04
190	577411.1	4194280	5.31E-02	8.56E-03	6.53E-04
191	577387	4194202	5.08E-02	8.19E-03	6.26E-04
192	577394.4	4194207	4.83E-02	7.79E-03	5.95E-04
193	577401.9	4194212	4.58E-02	7.39E-03	5.64E-04
194	577410.9	4194227	4.49E-02	7.24E-03	5.53E-04
195	577412.6	4194236	4.62E-02	7.45E-03	5.69E-04
196	577414.2	4194245	4.72E-02	7.60E-03	5.80E-04
197	577415.8	4194254	4.76E-02	7.68E-03	5.86E-04
198	577417.4	4194263	4.77E-02	7.68E-03	5.87E-04
199	577419	4194272	4.71E-02	7.59E-03	5.79E-04
200	577420.6	4194281	4.59E-02	7.40E-03	5.65E-04
201	577422.2	4194290	4.42E-02	7.13E-03	5.44E-04

202	577351.9	4194165	5.24E-02	8.44E-03	6.44E-04
203	577403.2	4194202	4.19E-02	6.76E-03	5.16E-04
204	577410.5	4194207	4.00E-02	6.45E-03	4.92E-04
205	577419.4	4194221	3.93E-02	6.33E-03	4.84E-04
206	577422.5	4194239	4.12E-02	6.65E-03	5.07E-04
207	577425.7	4194257	4.19E-02	6.75E-03	5.15E-04
208	577428.9	4194274	4.09E-02	6.59E-03	5.03E-04
209	577432	4194292	3.83E-02	6.18E-03	4.72E-04
210	577344.6	4194160	5.21E-02	8.40E-03	6.41E-04
211	577335.6	4194157	5.36E-02	8.64E-03	6.60E-04
212	577326.6	4194155	5.43E-02	8.76E-03	6.69E-04
213	577317.5	4194153	5.43E-02	8.76E-03	6.69E-04
214	577308.5	4194151	5.37E-02	8.65E-03	6.60E-04
215	577299.5	4194149	5.24E-02	8.44E-03	6.45E-04
216	577354.2	4194155	4.62E-02	7.44E-03	5.68E-04
217	577368.6	4194165	4.54E-02	7.32E-03	5.59E-04
218	577427.8	4194216	3.46E-02	5.58E-03	4.26E-04
219	577430.9	4194233	3.63E-02	5.85E-03	4.47E-04
220	577434	4194251	3.70E-02	5.97E-03	4.56E-04
221	577437.2	4194268	3.65E-02	5.89E-03	4.50E-04
222	577440.3	4194286	3.47E-02	5.60E-03	4.28E-04
223	577338	4194148	4.69E-02	7.56E-03	5.77E-04
224	577328.9	4194145	4.74E-02	7.64E-03	5.83E-04
225	577319.9	4194143	4.72E-02	7.62E-03	5.81E-04
226	577310.9	4194141	4.66E-02	7.51E-03	5.74E-04
227	577301.8	4194139	4.56E-02	7.35E-03	5.61E-04
228	577356.5	4194145	4.09E-02	6.60E-03	5.04E-04
229	577370.7	4194156	4.06E-02	6.54E-03	4.99E-04
230	577384.9	4194166	3.89E-02	6.27E-03	4.79E-04
231	577436.3	4194210	3.07E-02	4.95E-03	3.78E-04
232	577439.3	4194228	3.21E-02	5.18E-03	3.96E-04
233	577442.4	4194245	3.29E-02	5.30E-03	4.05E-04
234	577445.5	4194262	3.27E-02	5.28E-03	4.03E-04
235	577448.6	4194279	3.15E-02	5.09E-03	3.88E-04
236	577340.3	4194138	4.13E-02	6.66E-03	5.08E-04
237	577331.3	4194136	4.16E-02	6.71E-03	5.12E-04
238	577322.3	4194134	4.14E-02	6.68E-03	5.10E-04
239	577313.2	4194131	4.08E-02	6.58E-03	5.03E-04
240	577304.2	4194129	4.00E-02	6.44E-03	4.92E-04
241	577358.8	4194135	3.65E-02	5.88E-03	4.49E-04
242	577372.8	4194146	3.64E-02	5.87E-03	4.48E-04
243	577386.9	4194156	3.53E-02	5.69E-03	4.34E-04
244	577401	4194166	3.33E-02	5.37E-03	4.10E-04
245	577415.1	4194176	3.12E-02	5.03E-03	3.84E-04
246	577447.8	4194222	2.86E-02	4.61E-03	3.52E-04
247	577450.8	4194239	2.94E-02	4.73E-03	3.61E-04
248	577453.8	4194256	2.94E-02	4.74E-03	3.62E-04
249	577456.9	4194273	2.87E-02	4.62E-03	3.53E-04
250	577459.9	4194290	2.72E-02	4.38E-03	3.34E-04
251	577342.7	4194128	3.66E-02	5.90E-03	4.50E-04
252	577333.7	4194126	3.68E-02	5.93E-03	4.53E-04
253	577324.6	4194124	3.66E-02	5.90E-03	4.51E-04

254	577315.6	4194122	3.61E-02	5.82E-03	4.44E-04
255	577306.6	4194119	3.53E-02	5.69E-03	4.35E-04
256	577361.6	4194126	3.27E-02	5.28E-03	4.03E-04
257	577369.1	4194132	3.29E-02	5.31E-03	4.05E-04
258	577376.6	4194137	3.28E-02	5.29E-03	4.04E-04
259	577384.1	4194142	3.24E-02	5.23E-03	3.99E-04
260	577391.6	4194148	3.18E-02	5.13E-03	3.92E-04
261	577399.1	4194153	3.10E-02	5.00E-03	3.82E-04
262	577406.6	4194159	3.01E-02	4.85E-03	3.70E-04
263	577414.1	4194164	2.91E-02	4.70E-03	3.58E-04
264	577421.6	4194169	2.81E-02	4.54E-03	3.46E-04
265	577429.1	4194175	2.71E-02	4.37E-03	3.34E-04
266	577436.6	4194180	2.61E-02	4.21E-03	3.21E-04
267	577456.5	4194218	2.57E-02	4.15E-03	3.17E-04
268	577458.1	4194227	2.61E-02	4.21E-03	3.22E-04
269	577459.8	4194237	2.64E-02	4.26E-03	3.25E-04
270	577461.4	4194246	2.65E-02	4.28E-03	3.26E-04
271	577463	4194255	2.64E-02	4.26E-03	3.26E-04
272	577464.6	4194264	2.62E-02	4.22E-03	3.22E-04
273	577466.3	4194273	2.58E-02	4.15E-03	3.17E-04
274	577467.9	4194282	2.51E-02	4.05E-03	3.09E-04
275	577469.5	4194291	2.44E-02	3.93E-03	3.00E-04
276	577471.1	4194300	2.35E-02	3.78E-03	2.89E-04
277	577354.1	4194121	3.22E-02	5.19E-03	3.96E-04
278	577345.1	4194119	3.26E-02	5.26E-03	4.01E-04
279	577336	4194116	3.27E-02	5.28E-03	4.03E-04
280	577327	4194114	3.25E-02	5.25E-03	4.01E-04
281	577318	4194112	3.21E-02	5.18E-03	3.95E-04
282	577308.9	4194110	3.14E-02	5.06E-03	3.86E-04
283	577363.9	4194116	2.95E-02	4.76E-03	3.63E-04
284	577371.3	4194122	2.98E-02	4.80E-03	3.66E-04
285	577378.7	4194127	2.98E-02	4.80E-03	3.66E-04
286	577386.1	4194132	2.95E-02	4.76E-03	3.63E-04
287	577393.5	4194138	2.91E-02	4.69E-03	3.58E-04
288	577400.9	4194143	2.85E-02	4.59E-03	3.51E-04
289	577408.3	4194148	2.77E-02	4.47E-03	3.42E-04
290	577415.7	4194154	2.69E-02	4.34E-03	3.31E-04
291	577423.1	4194159	2.61E-02	4.21E-03	3.21E-04
292	577430.5	4194164	2.52E-02	4.07E-03	3.11E-04
293	577437.9	4194170	2.43E-02	3.93E-03	3.00E-04
294	577445.3	4194175	2.34E-02	3.78E-03	2.89E-04
295	577452.7	4194180	2.25E-02	3.63E-03	2.77E-04
296	577464.9	4194213	2.32E-02	3.73E-03	2.85E-04
297	577466.5	4194222	2.35E-02	3.79E-03	2.90E-04
298	577468.1	4194231	2.38E-02	3.84E-03	2.93E-04
299	577469.7	4194240	2.40E-02	3.86E-03	2.95E-04
300	577471.3	4194249	2.40E-02	3.87E-03	2.95E-04
301	577472.9	4194258	2.39E-02	3.85E-03	2.94E-04
302	577474.5	4194267	2.36E-02	3.80E-03	2.90E-04
303	577476.1	4194275	2.31E-02	3.73E-03	2.85E-04
304	577477.7	4194284	2.26E-02	3.64E-03	2.78E-04
305	577479.3	4194293	2.19E-02	3.53E-03	2.69E-04

306	577480.9	4194302	2.11E-02	3.40E-03	2.59E-04
307	577356.5	4194111	2.90E-02	4.67E-03	3.56E-04
308	577347.4	4194109	2.92E-02	4.71E-03	3.60E-04
309	577338.4	4194107	2.93E-02	4.72E-03	3.60E-04
310	577329.4	4194104	2.91E-02	4.69E-03	3.58E-04
311	577320.3	4194102	2.87E-02	4.62E-03	3.53E-04
312	577311.3	4194100	2.81E-02	4.52E-03	3.45E-04
313	577366.2	4194107	2.67E-02	4.30E-03	3.28E-04
314	577373.5	4194112	2.70E-02	4.35E-03	3.32E-04
315	577380.8	4194117	2.71E-02	4.36E-03	3.33E-04
316	577388.1	4194122	2.69E-02	4.34E-03	3.32E-04
317	577395.4	4194128	2.66E-02	4.29E-03	3.28E-04
318	577402.7	4194133	2.62E-02	4.22E-03	3.22E-04
319	577410.1	4194138	2.56E-02	4.13E-03	3.15E-04
320	577417.4	4194143	2.49E-02	4.02E-03	3.07E-04
321	577424.7	4194149	2.42E-02	3.90E-03	2.98E-04
322	577432	4194154	2.35E-02	3.79E-03	2.89E-04
323	577439.3	4194159	2.27E-02	3.66E-03	2.80E-04
324	577446.6	4194165	2.19E-02	3.54E-03	2.70E-04
325	577454	4194170	2.12E-02	3.41E-03	2.61E-04
326	577461.3	4194175	2.04E-02	3.29E-03	2.51E-04
327	577476.5	4194225	2.16E-02	3.48E-03	2.66E-04
328	577479.7	4194242	2.18E-02	3.52E-03	2.69E-04
329	577482.8	4194260	2.16E-02	3.48E-03	2.66E-04
330	577486	4194278	2.09E-02	3.37E-03	2.57E-04
331	577489.1	4194296	1.97E-02	3.18E-03	2.43E-04
332	577358.8	4194101	2.62E-02	4.22E-03	3.22E-04
333	577349.8	4194099	2.63E-02	4.25E-03	3.24E-04
334	577340.8	4194097	2.63E-02	4.24E-03	3.24E-04
335	577331.7	4194095	2.61E-02	4.21E-03	3.21E-04
336	577322.7	4194092	2.57E-02	4.15E-03	3.17E-04
337	577313.7	4194090	2.52E-02	4.06E-03	3.10E-04
338	577368.4	4194097	2.42E-02	3.90E-03	2.98E-04
339	577382.9	4194107	2.47E-02	3.98E-03	3.04E-04
340	577397.4	4194118	2.44E-02	3.94E-03	3.01E-04
341	577411.9	4194128	2.36E-02	3.81E-03	2.91E-04
342	577426.4	4194139	2.25E-02	3.63E-03	2.77E-04
343	577440.9	4194149	2.12E-02	3.42E-03	2.61E-04
344	577455.3	4194159	1.99E-02	3.21E-03	2.45E-04
345	577469.8	4194170	1.85E-02	2.99E-03	2.28E-04
346	577478.6	4194184	1.83E-02	2.95E-03	2.25E-04
347	577486.4	4194228	1.98E-02	3.19E-03	2.44E-04
348	577489.6	4194245	1.99E-02	3.21E-03	2.45E-04
349	577492.7	4194263	1.96E-02	3.16E-03	2.42E-04
350	577494.3	4194272	1.93E-02	3.12E-03	2.38E-04
351	577497.4	4194289	1.84E-02	2.97E-03	2.27E-04
352	577500.5	4194307	1.72E-02	2.78E-03	2.12E-04
353	577352.2	4194089	2.38E-02	3.84E-03	2.93E-04
354	577343.1	4194087	2.38E-02	3.83E-03	2.93E-04
355	577334.1	4194085	2.36E-02	3.80E-03	2.90E-04
356	577325.1	4194083	2.32E-02	3.74E-03	2.85E-04
357	577316	4194081	2.27E-02	3.66E-03	2.79E-04

358	577370.8	4194087	2.20E-02	3.55E-03	2.71E-04
359	577385.1	4194097	2.26E-02	3.64E-03	2.78E-04
360	577399.4	4194108	2.24E-02	3.62E-03	2.76E-04
361	577413.8	4194118	2.18E-02	3.52E-03	2.69E-04
362	577428.1	4194128	2.09E-02	3.37E-03	2.57E-04
363	577442.5	4194139	1.98E-02	3.20E-03	2.44E-04
364	577456.8	4194149	1.87E-02	3.01E-03	2.30E-04
365	577471.2	4194159	1.75E-02	2.83E-03	2.16E-04
366	577487.1	4194178	1.67E-02	2.70E-03	2.06E-04
367	577496.4	4194231	1.82E-02	2.94E-03	2.24E-04
368	577499.5	4194248	1.82E-02	2.94E-03	2.24E-04
369	577502.6	4194265	1.79E-02	2.88E-03	2.20E-04
370	577505.7	4194283	1.72E-02	2.78E-03	2.12E-04
371	577508.8	4194300	1.63E-02	2.62E-03	2.00E-04
372	577354.5	4194080	2.16E-02	3.49E-03	2.66E-04
373	577345.5	4194077	2.16E-02	3.48E-03	2.65E-04
374	577336.5	4194075	2.13E-02	3.44E-03	2.63E-04
375	577327.4	4194073	2.10E-02	3.39E-03	2.59E-04
376	577318.4	4194071	2.06E-02	3.32E-03	2.53E-04
377	577373.5	4194078	2.01E-02	3.25E-03	2.48E-04
378	577381	4194083	2.05E-02	3.30E-03	2.52E-04
379	577388.5	4194088	2.07E-02	3.34E-03	2.55E-04
380	577396.1	4194094	2.07E-02	3.34E-03	2.55E-04
381	577403.6	4194099	2.06E-02	3.33E-03	2.54E-04
382	577411.1	4194105	2.04E-02	3.29E-03	2.51E-04
383	577418.7	4194110	2.01E-02	3.24E-03	2.47E-04
384	577426.2	4194116	1.97E-02	3.17E-03	2.42E-04
385	577433.7	4194121	1.92E-02	3.10E-03	2.37E-04
386	577441.3	4194126	1.87E-02	3.02E-03	2.31E-04
387	577448.8	4194132	1.82E-02	2.94E-03	2.24E-04
388	577456.3	4194137	1.77E-02	2.85E-03	2.18E-04
389	577463.9	4194143	1.72E-02	2.77E-03	2.11E-04
390	577471.4	4194148	1.66E-02	2.68E-03	2.05E-04
391	577478.9	4194154	1.61E-02	2.60E-03	1.98E-04
392	577486.4	4194159	1.56E-02	2.51E-03	1.92E-04
393	577495.6	4194174	1.54E-02	2.48E-03	1.89E-04
394	577497.2	4194183	1.57E-02	2.53E-03	1.93E-04
395	577498.9	4194192	1.60E-02	2.58E-03	1.97E-04
396	577503.7	4194219	1.66E-02	2.68E-03	2.05E-04
397	577505.4	4194228	1.67E-02	2.70E-03	2.06E-04
398	577507	4194237	1.68E-02	2.71E-03	2.07E-04
399	577508.6	4194247	1.67E-02	2.70E-03	2.06E-04
400	577510.3	4194256	1.66E-02	2.68E-03	2.05E-04
401	577511.9	4194265	1.64E-02	2.65E-03	2.02E-04
402	577513.5	4194274	1.62E-02	2.61E-03	1.99E-04
403	577515.1	4194283	1.58E-02	2.55E-03	1.95E-04
404	577516.8	4194292	1.54E-02	2.48E-03	1.89E-04
405	577518.4	4194301	1.49E-02	2.41E-03	1.84E-04
406	577520	4194311	1.44E-02	2.32E-03	1.77E-04
407	577365.9	4194072	1.97E-02	3.17E-03	2.42E-04
408	577356.9	4194070	1.97E-02	3.18E-03	2.43E-04
409	577347.9	4194068	1.96E-02	3.16E-03	2.41E-04

410	577338.8	4194066	1.94E-02	3.13E-03	2.39E-04
411	577329.8	4194063	1.91E-02	3.08E-03	2.35E-04
412	577320.8	4194061	1.87E-02	3.02E-03	2.31E-04
413	577375.8	4194068	1.85E-02	2.98E-03	2.27E-04
414	577383.2	4194073	1.88E-02	3.03E-03	2.31E-04
415	577390.7	4194079	1.90E-02	3.07E-03	2.34E-04
416	577398.1	4194084	1.91E-02	3.08E-03	2.35E-04
417	577405.6	4194089	1.91E-02	3.08E-03	2.35E-04
418	577413	4194095	1.89E-02	3.05E-03	2.33E-04
419	577420.5	4194100	1.87E-02	3.01E-03	2.30E-04
420	577427.9	4194105	1.83E-02	2.95E-03	2.26E-04
421	577435.4	4194111	1.80E-02	2.89E-03	2.21E-04
422	577442.8	4194116	1.75E-02	2.83E-03	2.16E-04
423	577450.3	4194121	1.71E-02	2.76E-03	2.11E-04
424	577457.7	4194127	1.67E-02	2.68E-03	2.05E-04
425	577465.2	4194132	1.62E-02	2.61E-03	1.99E-04
426	577472.6	4194138	1.57E-02	2.54E-03	1.94E-04
427	577480.1	4194143	1.53E-02	2.46E-03	1.88E-04
428	577487.5	4194148	1.48E-02	2.39E-03	1.82E-04
429	577495	4194154	1.43E-02	2.31E-03	1.76E-04
430	577504.1	4194168	1.41E-02	2.28E-03	1.74E-04
431	577505.7	4194177	1.44E-02	2.33E-03	1.78E-04
432	577507.3	4194186	1.47E-02	2.37E-03	1.81E-04
433	577513.7	4194222	1.54E-02	2.48E-03	1.90E-04
434	577515.3	4194231	1.55E-02	2.49E-03	1.90E-04
435	577516.9	4194240	1.55E-02	2.49E-03	1.90E-04
436	577518.5	4194249	1.54E-02	2.48E-03	1.90E-04
437	577520.2	4194258	1.53E-02	2.46E-03	1.88E-04
438	577521.8	4194268	1.51E-02	2.43E-03	1.85E-04
439	577523.4	4194277	1.48E-02	2.39E-03	1.82E-04
440	577525	4194286	1.45E-02	2.33E-03	1.78E-04
441	577526.6	4194295	1.41E-02	2.27E-03	1.74E-04
442	577528.2	4194304	1.37E-02	2.20E-03	1.68E-04
443	577368.3	4194062	1.80E-02	2.91E-03	2.22E-04
444	577359.3	4194060	1.80E-02	2.91E-03	2.22E-04
445	577350.2	4194058	1.79E-02	2.89E-03	2.20E-04
446	577341.2	4194056	1.77E-02	2.85E-03	2.18E-04
447	577332.2	4194054	1.74E-02	2.81E-03	2.15E-04
448	577323.1	4194051	1.71E-02	2.76E-03	2.11E-04
449	577378.1	4194058	1.70E-02	2.74E-03	2.09E-04
450	577385.4	4194063	1.73E-02	2.79E-03	2.13E-04
451	577392.8	4194069	1.75E-02	2.82E-03	2.16E-04
452	577400.2	4194074	1.76E-02	2.85E-03	2.17E-04
453	577407.6	4194079	1.77E-02	2.85E-03	2.17E-04
454	577415	4194085	1.76E-02	2.83E-03	2.16E-04
455	577422.3	4194090	1.74E-02	2.80E-03	2.14E-04
456	577429.7	4194095	1.71E-02	2.76E-03	2.11E-04
457	577437.1	4194101	1.68E-02	2.71E-03	2.07E-04
458	577444.5	4194106	1.64E-02	2.65E-03	2.02E-04
459	577451.9	4194111	1.61E-02	2.59E-03	1.98E-04
460	577459.2	4194117	1.57E-02	2.53E-03	1.93E-04
461	577466.6	4194122	1.53E-02	2.46E-03	1.88E-04

462	577474	4194127	1.49E-02	2.40E-03	1.83E-04
463	577481.4	4194132	1.45E-02	2.33E-03	1.78E-04
464	577488.8	4194138	1.41E-02	2.27E-03	1.73E-04
465	577496.2	4194143	1.36E-02	2.20E-03	1.68E-04
466	577503.5	4194148	1.32E-02	2.13E-03	1.63E-04
467	577512.5	4194163	1.31E-02	2.10E-03	1.61E-04
468	577515.7	4194181	1.35E-02	2.18E-03	1.67E-04
469	577517.3	4194190	1.37E-02	2.22E-03	1.69E-04
470	577525.3	4194234	1.43E-02	2.31E-03	1.76E-04
471	577526.9	4194243	1.43E-02	2.31E-03	1.76E-04
472	577528.5	4194252	1.42E-02	2.29E-03	1.75E-04
473	577530.1	4194261	1.41E-02	2.27E-03	1.73E-04
474	577531.6	4194270	1.39E-02	2.24E-03	1.71E-04
475	577534.8	4194288	1.33E-02	2.14E-03	1.64E-04
476	577536.4	4194297	1.29E-02	2.08E-03	1.59E-04
477	577538	4194306	1.25E-02	2.01E-03	1.54E-04
478	577539.6	4194315	1.20E-02	1.94E-03	1.48E-04
479	577370.7	4194053	1.66E-02	2.67E-03	2.04E-04
480	577361.6	4194051	1.65E-02	2.66E-03	2.03E-04
481	577352.6	4194048	1.64E-02	2.64E-03	2.02E-04
482	577343.6	4194046	1.62E-02	2.61E-03	1.99E-04
483	577334.5	4194044	1.60E-02	2.57E-03	1.97E-04
484	577325.5	4194042	1.57E-02	2.53E-03	1.93E-04
485	577380.4	4194048	1.56E-02	2.52E-03	1.92E-04
486	577387.7	4194054	1.59E-02	2.57E-03	1.96E-04
487	577395	4194059	1.62E-02	2.61E-03	1.99E-04
488	577402.3	4194064	1.63E-02	2.63E-03	2.01E-04
489	577409.6	4194069	1.64E-02	2.64E-03	2.01E-04
490	577416.9	4194075	1.63E-02	2.63E-03	2.01E-04
491	577424.3	4194080	1.62E-02	2.61E-03	1.99E-04
492	577431.6	4194085	1.60E-02	2.58E-03	1.97E-04
493	577438.9	4194090	1.57E-02	2.54E-03	1.94E-04
494	577446.2	4194096	1.54E-02	2.49E-03	1.90E-04
495	577453.5	4194101	1.51E-02	2.44E-03	1.86E-04
496	577460.8	4194106	1.48E-02	2.38E-03	1.82E-04
497	577468.2	4194112	1.44E-02	2.32E-03	1.77E-04
498	577475.5	4194117	1.41E-02	2.27E-03	1.73E-04
499	577482.8	4194122	1.37E-02	2.21E-03	1.69E-04
500	577490.1	4194127	1.33E-02	2.15E-03	1.64E-04
501	577497.4	4194133	1.30E-02	2.09E-03	1.60E-04
502	577504.7	4194138	1.26E-02	2.03E-03	1.55E-04
503	577512.1	4194143	1.22E-02	1.97E-03	1.50E-04
504	577521	4194157	1.21E-02	1.95E-03	1.49E-04
505	577522.5	4194166	1.23E-02	1.98E-03	1.51E-04
506	577525.7	4194184	1.27E-02	2.05E-03	1.56E-04
507	577535.2	4194237	1.33E-02	2.14E-03	1.64E-04
508	577538.3	4194255	1.31E-02	2.12E-03	1.62E-04
509	577541.5	4194273	1.28E-02	2.06E-03	1.57E-04
510	577544.7	4194290	1.21E-02	1.95E-03	1.49E-04
511	577547.8	4194308	1.14E-02	1.83E-03	1.40E-04
512	577549.4	4194317	1.10E-02	1.77E-03	1.35E-04
513	577373.1	4194043	1.53E-02	2.46E-03	1.88E-04

514	577364	4194041	1.52E-02	2.45E-03	1.87E-04
515	577355	4194039	1.51E-02	2.43E-03	1.86E-04
516	577345.9	4194036	1.49E-02	2.40E-03	1.83E-04
517	577336.9	4194034	1.47E-02	2.37E-03	1.81E-04
518	577327.9	4194032	1.44E-02	2.33E-03	1.77E-04
519	577382.7	4194039	1.44E-02	2.33E-03	1.78E-04
520	577397.2	4194049	1.50E-02	2.41E-03	1.84E-04
521	577411.7	4194059	1.52E-02	2.45E-03	1.87E-04
522	577426.2	4194070	1.51E-02	2.44E-03	1.86E-04
523	577440.7	4194080	1.47E-02	2.38E-03	1.82E-04
524	577455.3	4194091	1.42E-02	2.29E-03	1.75E-04
525	577469.8	4194101	1.36E-02	2.20E-03	1.68E-04
526	577484.3	4194112	1.30E-02	2.10E-03	1.60E-04
527	577498.8	4194122	1.23E-02	1.99E-03	1.52E-04
528	577513.3	4194133	1.17E-02	1.88E-03	1.43E-04
529	577529.4	4194152	1.12E-02	1.81E-03	1.38E-04
530	577531	4194161	1.14E-02	1.84E-03	1.40E-04
531	577534.1	4194178	1.18E-02	1.90E-03	1.45E-04
532	577537.3	4194196	1.21E-02	1.95E-03	1.49E-04
533	577543.5	4194231	1.24E-02	1.99E-03	1.52E-04
534	577546.7	4194249	1.23E-02	1.98E-03	1.51E-04
535	577549.8	4194266	1.18E-02	1.90E-03	1.45E-04
536	577551.4	4194275	1.15E-02	1.86E-03	1.42E-04
537	577554.5	4194293	1.10E-02	1.77E-03	1.35E-04
538	577557.6	4194310	1.04E-02	1.67E-03	1.27E-04
539	577366.4	4194031	1.40E-02	2.26E-03	1.73E-04
540	577357.4	4194029	1.39E-02	2.24E-03	1.71E-04
541	577348.3	4194027	1.37E-02	2.21E-03	1.69E-04
542	577339.3	4194024	1.35E-02	2.18E-03	1.67E-04
543	577330.2	4194022	1.33E-02	2.14E-03	1.64E-04
544	577385	4194029	1.34E-02	2.15E-03	1.64E-04
545	577399.4	4194039	1.39E-02	2.24E-03	1.71E-04
546	577413.8	4194050	1.41E-02	2.28E-03	1.74E-04
547	577428.2	4194060	1.41E-02	2.27E-03	1.74E-04
548	577442.6	4194070	1.38E-02	2.23E-03	1.70E-04
549	577457	4194081	1.34E-02	2.16E-03	1.65E-04
550	577471.5	4194091	1.29E-02	2.08E-03	1.59E-04
551	577485.9	4194101	1.23E-02	1.99E-03	1.52E-04
552	577500.3	4194112	1.17E-02	1.89E-03	1.44E-04
553	577514.7	4194122	1.11E-02	1.79E-03	1.37E-04
554	577529.1	4194133	1.05E-02	1.70E-03	1.29E-04
555	577537.9	4194146	1.04E-02	1.68E-03	1.28E-04
556	577541	4194164	1.08E-02	1.74E-03	1.33E-04
557	577544.1	4194181	1.11E-02	1.79E-03	1.36E-04
558	577547.2	4194199	1.13E-02	1.83E-03	1.40E-04
559	577553.4	4194234	1.15E-02	1.86E-03	1.42E-04
560	577556.5	4194251	1.12E-02	1.81E-03	1.38E-04
561	577559.7	4194269	1.08E-02	1.74E-03	1.32E-04
562	577562.8	4194286	1.03E-02	1.65E-03	1.26E-04
563	577565.9	4194304	9.74E-03	1.57E-03	1.20E-04
564	577368.8	4194021	1.30E-02	2.09E-03	1.59E-04
565	577359.7	4194019	1.28E-02	2.07E-03	1.58E-04

566	577350.7	4194017	1.27E-02	2.05E-03	1.56E-04
567	577341.7	4194015	1.25E-02	2.02E-03	1.54E-04
568	577332.6	4194013	1.23E-02	1.98E-03	1.51E-04
569	577387.6	4194019	1.24E-02	2.00E-03	1.53E-04
570	577395.1	4194025	1.27E-02	2.05E-03	1.56E-04
571	577402.6	4194030	1.29E-02	2.08E-03	1.59E-04
572	577410.1	4194035	1.31E-02	2.11E-03	1.61E-04
573	577417.6	4194041	1.32E-02	2.12E-03	1.62E-04
574	577425	4194046	1.32E-02	2.13E-03	1.63E-04
575	577432.5	4194052	1.32E-02	2.13E-03	1.62E-04
576	577440	4194057	1.31E-02	2.11E-03	1.61E-04
577	577447.5	4194062	1.29E-02	2.09E-03	1.59E-04
578	577455	4194068	1.27E-02	2.06E-03	1.57E-04
579	577462.5	4194073	1.25E-02	2.02E-03	1.54E-04
580	577469.9	4194079	1.23E-02	1.98E-03	1.51E-04
581	577477.4	4194084	1.20E-02	1.94E-03	1.48E-04
582	577484.9	4194089	1.18E-02	1.90E-03	1.45E-04
583	577492.4	4194095	1.15E-02	1.86E-03	1.42E-04
584	577499.9	4194100	1.12E-02	1.81E-03	1.38E-04
585	577507.4	4194105	1.10E-02	1.77E-03	1.35E-04
586	577514.8	4194111	1.07E-02	1.72E-03	1.31E-04
587	577522.3	4194116	1.04E-02	1.67E-03	1.28E-04
588	577529.8	4194122	1.01E-02	1.63E-03	1.24E-04
589	577537.3	4194127	9.82E-03	1.58E-03	1.21E-04
590	577546.4	4194142	9.71E-03	1.57E-03	1.20E-04
591	577548	4194151	9.88E-03	1.59E-03	1.22E-04
592	577549.6	4194160	1.00E-02	1.62E-03	1.24E-04
593	577551.2	4194169	1.02E-02	1.64E-03	1.26E-04
594	577552.9	4194178	1.03E-02	1.67E-03	1.27E-04
595	577554.5	4194187	1.05E-02	1.69E-03	1.29E-04
596	577556.1	4194196	1.06E-02	1.71E-03	1.30E-04
597	577562.6	4194232	1.08E-02	1.73E-03	1.32E-04
598	577564.2	4194241	1.07E-02	1.72E-03	1.32E-04
599	577565.8	4194250	1.04E-02	1.68E-03	1.28E-04
600	577567.4	4194260	1.02E-02	1.64E-03	1.25E-04
601	577569	4194269	9.94E-03	1.60E-03	1.22E-04
602	577570.6	4194278	9.69E-03	1.56E-03	1.19E-04
603	577572.3	4194287	9.42E-03	1.52E-03	1.16E-04
604	577573.9	4194296	9.19E-03	1.48E-03	1.13E-04
605	577575.5	4194305	8.95E-03	1.44E-03	1.10E-04
606	577577.1	4194314	8.68E-03	1.40E-03	1.07E-04
607	577578.7	4194323	8.41E-03	1.36E-03	1.04E-04
608	577380.2	4194014	1.21E-02	1.95E-03	1.49E-04
609	577371.1	4194012	1.20E-02	1.94E-03	1.48E-04
610	577362.1	4194009	1.19E-02	1.92E-03	1.47E-04
611	577353.1	4194007	1.18E-02	1.90E-03	1.45E-04
612	577344	4194005	1.16E-02	1.87E-03	1.43E-04
613	577335	4194003	1.14E-02	1.84E-03	1.40E-04
614	577389.9	4194009	1.15E-02	1.86E-03	1.42E-04
615	577397.4	4194015	1.18E-02	1.90E-03	1.45E-04
616	577404.8	4194020	1.20E-02	1.94E-03	1.48E-04
617	577412.2	4194026	1.22E-02	1.97E-03	1.50E-04

618	577419.6	4194031	1.23E-02	1.98E-03	1.51E-04
619	577427.1	4194036	1.24E-02	1.99E-03	1.52E-04
620	577434.5	4194042	1.23E-02	1.99E-03	1.52E-04
621	577441.9	4194047	1.23E-02	1.98E-03	1.51E-04
622	577449.3	4194052	1.22E-02	1.96E-03	1.50E-04
623	577456.7	4194058	1.20E-02	1.94E-03	1.48E-04
624	577464.2	4194063	1.18E-02	1.91E-03	1.46E-04
625	577471.6	4194068	1.16E-02	1.88E-03	1.43E-04
626	577479	4194074	1.14E-02	1.84E-03	1.41E-04
627	577486.4	4194079	1.12E-02	1.80E-03	1.38E-04
628	577493.9	4194084	1.09E-02	1.77E-03	1.35E-04
629	577501.3	4194090	1.07E-02	1.73E-03	1.32E-04
630	577508.7	4194095	1.05E-02	1.69E-03	1.29E-04
631	577516.1	4194100	1.02E-02	1.64E-03	1.26E-04
632	577523.5	4194106	9.94E-03	1.60E-03	1.22E-04
633	577531	4194111	9.68E-03	1.56E-03	1.19E-04
634	577538.4	4194116	9.43E-03	1.52E-03	1.16E-04
635	577545.8	4194122	9.17E-03	1.48E-03	1.13E-04
636	577554.8	4194136	9.07E-03	1.46E-03	1.12E-04
637	577556.4	4194145	9.22E-03	1.49E-03	1.14E-04
638	577558	4194154	9.37E-03	1.51E-03	1.15E-04
639	577559.7	4194163	9.51E-03	1.53E-03	1.17E-04
640	577561.3	4194172	9.64E-03	1.55E-03	1.19E-04
641	577562.9	4194181	9.76E-03	1.57E-03	1.20E-04
642	577564.5	4194190	9.86E-03	1.59E-03	1.21E-04
643	577566.1	4194199	9.95E-03	1.60E-03	1.22E-04
644	577572.5	4194235	1.00E-02	1.62E-03	1.24E-04
645	577574.1	4194244	9.89E-03	1.59E-03	1.22E-04
646	577575.7	4194253	9.59E-03	1.55E-03	1.18E-04
647	577577.3	4194262	9.35E-03	1.51E-03	1.15E-04
648	577578.9	4194271	9.13E-03	1.47E-03	1.12E-04
649	577580.5	4194280	8.88E-03	1.43E-03	1.09E-04
650	577582.1	4194289	8.63E-03	1.39E-03	1.06E-04
651	577583.7	4194298	8.42E-03	1.36E-03	1.04E-04
652	577586.9	4194316	8.02E-03	1.29E-03	9.87E-05
653	577588.5	4194325	7.80E-03	1.26E-03	9.61E-05
654	577382.5	4194004	1.12E-02	1.81E-03	1.38E-04
655	577373.5	4194002	1.12E-02	1.80E-03	1.37E-04
656	577364.5	4194000	1.11E-02	1.78E-03	1.36E-04
657	577355.4	4193998	1.09E-02	1.76E-03	1.34E-04
658	577346.4	4193995	1.08E-02	1.74E-03	1.33E-04
659	577337.4	4193993	1.06E-02	1.71E-03	1.30E-04
660	577392.3	4194000	1.08E-02	1.73E-03	1.32E-04
661	577399.6	4194005	1.10E-02	1.77E-03	1.35E-04
662	577407	4194010	1.12E-02	1.81E-03	1.38E-04
663	577414.4	4194016	1.14E-02	1.84E-03	1.40E-04
664	577421.7	4194021	1.15E-02	1.85E-03	1.42E-04
665	577429.1	4194026	1.16E-02	1.86E-03	1.42E-04
666	577436.5	4194032	1.16E-02	1.87E-03	1.42E-04
667	577443.8	4194037	1.15E-02	1.86E-03	1.42E-04
668	577451.2	4194042	1.15E-02	1.85E-03	1.41E-04
669	577458.6	4194047	1.13E-02	1.83E-03	1.40E-04

670	577465.9	4194053	1.12E-02	1.81E-03	1.38E-04
671	577473.3	4194058	1.10E-02	1.78E-03	1.36E-04
672	577480.7	4194063	1.08E-02	1.75E-03	1.33E-04
673	577488	4194069	1.06E-02	1.71E-03	1.31E-04
674	577495.4	4194074	1.04E-02	1.68E-03	1.28E-04
675	577502.8	4194079	1.02E-02	1.64E-03	1.25E-04
676	577510.1	4194085	9.97E-03	1.61E-03	1.23E-04
677	577517.5	4194090	9.74E-03	1.57E-03	1.20E-04
678	577524.9	4194095	9.51E-03	1.53E-03	1.17E-04
679	577532.2	4194101	9.28E-03	1.50E-03	1.14E-04
680	577539.6	4194106	9.05E-03	1.46E-03	1.11E-04
681	577547	4194111	8.82E-03	1.42E-03	1.09E-04
682	577554.3	4194116	8.59E-03	1.38E-03	1.06E-04
683	577563.3	4194131	8.49E-03	1.37E-03	1.04E-04
684	577564.9	4194140	8.63E-03	1.39E-03	1.06E-04
685	577568.1	4194158	8.89E-03	1.43E-03	1.09E-04
686	577569.7	4194166	9.01E-03	1.45E-03	1.11E-04
687	577571.3	4194175	9.12E-03	1.47E-03	1.12E-04
688	577574.4	4194193	9.29E-03	1.50E-03	1.14E-04
689	577576	4194202	9.36E-03	1.51E-03	1.15E-04
690	577582.4	4194238	9.38E-03	1.51E-03	1.15E-04
691	577584	4194247	9.13E-03	1.47E-03	1.12E-04
692	577587.2	4194265	8.67E-03	1.40E-03	1.07E-04
693	577588.8	4194274	8.47E-03	1.37E-03	1.04E-04
694	577590.4	4194283	8.24E-03	1.33E-03	1.01E-04
695	577593.5	4194301	7.89E-03	1.27E-03	9.71E-05
696	577595.1	4194309	7.71E-03	1.24E-03	9.49E-05
697	577596.7	4194318	7.52E-03	1.21E-03	9.26E-05
698	577598.3	4194327	7.34E-03	1.18E-03	9.03E-05
699	577384.9	4193994	1.05E-02	1.69E-03	1.29E-04
700	577375.9	4193992	1.04E-02	1.68E-03	1.28E-04
701	577366.8	4193990	1.03E-02	1.66E-03	1.27E-04
702	577357.8	4193988	1.02E-02	1.64E-03	1.25E-04
703	577348.8	4193986	1.00E-02	1.62E-03	1.23E-04
704	577339.7	4193983	9.86E-03	1.59E-03	1.21E-04
705	577394.6	4193990	1.00E-02	1.62E-03	1.24E-04
706	577401.9	4193995	1.03E-02	1.66E-03	1.26E-04
707	577409.2	4194001	1.05E-02	1.69E-03	1.29E-04
708	577416.5	4194006	1.06E-02	1.72E-03	1.31E-04
709	577423.8	4194011	1.08E-02	1.74E-03	1.32E-04
710	577431.2	4194016	1.08E-02	1.75E-03	1.33E-04
711	577438.5	4194022	1.09E-02	1.75E-03	1.34E-04
712	577445.8	4194027	1.09E-02	1.75E-03	1.34E-04
713	577453.1	4194032	1.08E-02	1.74E-03	1.33E-04
714	577460.4	4194037	1.07E-02	1.73E-03	1.32E-04
715	577467.7	4194043	1.06E-02	1.71E-03	1.30E-04
716	577475.1	4194048	1.05E-02	1.69E-03	1.29E-04
717	577482.4	4194053	1.03E-02	1.66E-03	1.27E-04
718	577489.7	4194058	1.01E-02	1.63E-03	1.25E-04
719	577497	4194064	9.93E-03	1.60E-03	1.22E-04
720	577504.3	4194069	9.72E-03	1.57E-03	1.20E-04
721	577511.6	4194074	9.51E-03	1.53E-03	1.17E-04

722	577519	4194080	9.31E-03	1.50E-03	1.15E-04
723	577526.3	4194085	9.10E-03	1.47E-03	1.12E-04
724	577533.6	4194090	8.89E-03	1.43E-03	1.09E-04
725	577540.9	4194095	8.68E-03	1.40E-03	1.07E-04
726	577548.2	4194101	8.47E-03	1.37E-03	1.04E-04
727	577555.5	4194106	8.26E-03	1.33E-03	1.02E-04
728	577562.9	4194111	8.04E-03	1.30E-03	9.89E-05
729	577571.7	4194125	7.95E-03	1.28E-03	9.79E-05
730	577573.3	4194134	8.08E-03	1.30E-03	9.95E-05
731	577576.5	4194152	8.32E-03	1.34E-03	1.02E-04
732	577579.7	4194170	8.53E-03	1.38E-03	1.05E-04
733	577582.8	4194187	8.70E-03	1.40E-03	1.07E-04
734	577586	4194205	8.82E-03	1.42E-03	1.09E-04
735	577592.3	4194241	8.78E-03	1.42E-03	1.08E-04
736	577595.5	4194258	8.31E-03	1.34E-03	1.02E-04
737	577598.6	4194276	7.93E-03	1.28E-03	9.76E-05
738	577601.8	4194294	7.56E-03	1.22E-03	9.30E-05
739	577605	4194312	7.24E-03	1.17E-03	8.91E-05
740	577606.5	4194321	7.07E-03	1.14E-03	8.70E-05
741	577608.1	4194330	6.91E-03	1.11E-03	8.50E-05
742	577387.3	4193985	9.77E-03	1.58E-03	1.20E-04
743	577378.2	4193982	9.70E-03	1.56E-03	1.19E-04
744	577369.2	4193980	9.60E-03	1.55E-03	1.18E-04
745	577360.2	4193978	9.48E-03	1.53E-03	1.17E-04
746	577351.1	4193976	9.34E-03	1.51E-03	1.15E-04
747	577342.1	4193974	9.20E-03	1.48E-03	1.13E-04
748	577396.9	4193980	9.38E-03	1.51E-03	1.16E-04
749	577404.2	4193985	9.61E-03	1.55E-03	1.18E-04
750	577418.7	4193996	9.97E-03	1.61E-03	1.23E-04
751	577426	4194001	1.01E-02	1.63E-03	1.24E-04
752	577440.5	4194012	1.02E-02	1.65E-03	1.26E-04
753	577455.1	4194022	1.02E-02	1.64E-03	1.25E-04
754	577469.6	4194033	1.00E-02	1.62E-03	1.23E-04
755	577476.9	4194038	9.91E-03	1.60E-03	1.22E-04
756	577491.4	4194048	9.63E-03	1.55E-03	1.19E-04
757	577498.7	4194054	9.46E-03	1.53E-03	1.16E-04
758	577513.2	4194064	9.10E-03	1.47E-03	1.12E-04
759	577520.5	4194069	8.91E-03	1.44E-03	1.10E-04
760	577535	4194080	8.52E-03	1.37E-03	1.05E-04
761	577549.6	4194090	8.14E-03	1.31E-03	1.00E-04
762	577564.1	4194101	7.73E-03	1.25E-03	9.52E-05
763	577571.4	4194106	7.53E-03	1.21E-03	9.26E-05
764	577580.2	4194120	7.45E-03	1.20E-03	9.17E-05
765	577583.3	4194138	7.70E-03	1.24E-03	9.48E-05
766	577584.9	4194146	7.80E-03	1.26E-03	9.61E-05
767	577588.1	4194164	8.00E-03	1.29E-03	9.85E-05
768	577591.2	4194182	8.16E-03	1.32E-03	1.00E-04
769	577594.3	4194199	8.28E-03	1.33E-03	1.02E-04
770	577595.9	4194208	8.32E-03	1.34E-03	1.02E-04
771	577602.2	4194243	8.21E-03	1.32E-03	1.01E-04
772	577605.3	4194261	7.80E-03	1.26E-03	9.60E-05
773	577606.9	4194270	7.62E-03	1.23E-03	9.38E-05

774	577610.1	4194288	7.24E-03	1.17E-03	8.91E-05
775	577613.2	4194305	6.96E-03	1.12E-03	8.57E-05
776	577614.8	4194314	6.82E-03	1.10E-03	8.39E-05
777	577616.3	4194323	6.69E-03	1.08E-03	8.24E-05
778	577380.6	4193973	9.07E-03	1.46E-03	1.12E-04
779	577371.6	4193971	8.97E-03	1.45E-03	1.10E-04
780	577362.5	4193968	8.85E-03	1.43E-03	1.09E-04
781	577353.5	4193966	8.73E-03	1.41E-03	1.07E-04
782	577344.5	4193964	8.59E-03	1.39E-03	1.06E-04
783	577399.5	4193971	8.80E-03	1.42E-03	1.08E-04
784	577407	4193976	9.02E-03	1.45E-03	1.11E-04
785	577414.5	4193981	9.21E-03	1.49E-03	1.13E-04
786	577422	4193987	9.37E-03	1.51E-03	1.15E-04
787	577429.5	4193992	9.50E-03	1.53E-03	1.17E-04
788	577437	4193998	9.58E-03	1.54E-03	1.18E-04
789	577444.5	4194003	9.63E-03	1.55E-03	1.18E-04
790	577452	4194009	9.63E-03	1.55E-03	1.19E-04
791	577459.5	4194014	9.61E-03	1.55E-03	1.18E-04
792	577467	4194019	9.54E-03	1.54E-03	1.17E-04
793	577474.5	4194025	9.46E-03	1.52E-03	1.16E-04
794	577482	4194030	9.35E-03	1.51E-03	1.15E-04
795	577489.5	4194036	9.22E-03	1.49E-03	1.14E-04
796	577497	4194041	9.09E-03	1.46E-03	1.12E-04
797	577504.6	4194046	8.93E-03	1.44E-03	1.10E-04
798	577512.1	4194052	8.77E-03	1.41E-03	1.08E-04
799	577519.6	4194057	8.59E-03	1.38E-03	1.06E-04
800	577527.1	4194063	8.41E-03	1.36E-03	1.03E-04
801	577534.6	4194068	8.22E-03	1.33E-03	1.01E-04
802	577542.1	4194073	8.03E-03	1.29E-03	9.88E-05
803	577549.6	4194079	7.84E-03	1.26E-03	9.65E-05
804	577557.1	4194084	7.66E-03	1.23E-03	9.42E-05
805	577564.6	4194090	7.46E-03	1.20E-03	9.19E-05
806	577572.1	4194095	7.27E-03	1.17E-03	8.95E-05
807	577579.6	4194100	7.07E-03	1.14E-03	8.70E-05
808	577588.7	4194115	7.00E-03	1.13E-03	8.62E-05
809	577590.3	4194124	7.12E-03	1.15E-03	8.77E-05
810	577592	4194133	7.24E-03	1.17E-03	8.91E-05
811	577593.6	4194142	7.34E-03	1.18E-03	9.04E-05
812	577595.2	4194151	7.44E-03	1.20E-03	9.16E-05
813	577596.8	4194160	7.53E-03	1.21E-03	9.27E-05
814	577598.4	4194170	7.61E-03	1.23E-03	9.37E-05
815	577600.1	4194179	7.68E-03	1.24E-03	9.46E-05
816	577601.7	4194188	7.75E-03	1.25E-03	9.54E-05
817	577603.3	4194197	7.80E-03	1.26E-03	9.60E-05
818	577604.9	4194206	7.84E-03	1.26E-03	9.64E-05
819	577611.4	4194242	7.77E-03	1.25E-03	9.57E-05
820	577613	4194251	7.58E-03	1.22E-03	9.32E-05
821	577614.7	4194261	7.40E-03	1.19E-03	9.11E-05
822	577616.3	4194270	7.24E-03	1.17E-03	8.91E-05
823	577617.9	4194279	7.08E-03	1.14E-03	8.71E-05
824	577619.5	4194288	6.92E-03	1.12E-03	8.52E-05
825	577621.2	4194297	6.81E-03	1.10E-03	8.38E-05

826	577622.8	4194306	6.68E-03	1.08E-03	8.23E-05
827	577624.4	4194315	6.54E-03	1.06E-03	8.06E-05
828	577626	4194324	6.41E-03	1.03E-03	7.89E-05
829	577627.6	4194333	6.27E-03	1.01E-03	7.72E-05
830	577392	4193965	8.56E-03	1.38E-03	1.05E-04
831	577383	4193963	8.49E-03	1.37E-03	1.04E-04
832	577373.9	4193961	8.39E-03	1.35E-03	1.03E-04
833	577364.9	4193959	8.29E-03	1.34E-03	1.02E-04
834	577355.9	4193956	8.17E-03	1.32E-03	1.01E-04
835	577346.8	4193954	8.05E-03	1.30E-03	9.90E-05
836	577260.5	4194242	3.64E-01	5.88E-02	4.49E-03
837	577262.7	4194232	2.97E-01	4.79E-02	3.66E-03
838	577265	4194223	2.42E-01	3.90E-02	2.98E-03
839	577267.3	4194213	1.84E-01	2.97E-02	2.27E-03
840	577269.6	4194203	1.41E-01	2.28E-02	1.74E-03
841	577271.9	4194193	1.12E-01	1.81E-02	1.38E-03
842	577274.2	4194184	9.27E-02	1.49E-02	1.14E-03
843	577281	4194155	5.66E-02	9.12E-03	6.96E-04
844	577283.3	4194145	4.91E-02	7.91E-03	6.04E-04
845	577285.6	4194135	4.29E-02	6.92E-03	5.28E-04
846	577295.4	4194127	3.88E-02	6.26E-03	4.78E-04
847	577280.3	4194124	3.64E-02	5.87E-03	4.48E-04
848	577297.7	4194117	3.43E-02	5.53E-03	4.22E-04
849	577282.5	4194114	3.23E-02	5.20E-03	3.97E-04
850	577300	4194108	3.05E-02	4.92E-03	3.76E-04
851	577284.8	4194104	2.88E-02	4.64E-03	3.54E-04
852	577302.2	4194098	2.73E-02	4.40E-03	3.36E-04
853	577287.1	4194094	2.59E-02	4.17E-03	3.18E-04
854	577304.5	4194088	2.45E-02	3.96E-03	3.02E-04
855	577289.4	4194085	2.33E-02	3.76E-03	2.87E-04
856	577306.8	4194078	2.21E-02	3.57E-03	2.73E-04
857	577291.7	4194075	2.11E-02	3.41E-03	2.60E-04
858	577309.1	4194069	2.01E-02	3.24E-03	2.47E-04
859	577294	4194065	1.92E-02	3.10E-03	2.37E-04
860	577311.4	4194059	1.83E-02	2.95E-03	2.25E-04
861	577296.2	4194055	1.75E-02	2.83E-03	2.16E-04
862	577313.7	4194049	1.67E-02	2.70E-03	2.06E-04
863	577298.5	4194046	1.61E-02	2.59E-03	1.98E-04
864	577315.9	4194039	1.53E-02	2.47E-03	1.89E-04
865	577300.8	4194036	1.48E-02	2.38E-03	1.82E-04
866	577318.2	4194030	1.41E-02	2.28E-03	1.74E-04
867	577303.1	4194026	1.36E-02	2.19E-03	1.67E-04
868	577320.5	4194020	1.30E-02	2.10E-03	1.60E-04
869	577305.4	4194016	1.26E-02	2.03E-03	1.55E-04
870	577322.8	4194010	1.20E-02	1.94E-03	1.48E-04
871	577307.6	4194007	1.16E-02	1.88E-03	1.43E-04
872	577325.1	4194000	1.12E-02	1.80E-03	1.37E-04
873	577309.9	4193997	1.08E-02	1.74E-03	1.33E-04
874	577327.3	4193991	1.04E-02	1.67E-03	1.28E-04
875	577312.2	4193987	1.00E-02	1.62E-03	1.24E-04
876	577329.6	4193981	9.67E-03	1.56E-03	1.19E-04
877	577314.5	4193977	9.37E-03	1.51E-03	1.15E-04

878	577331.9	4193971	9.02E-03	1.45E-03	1.11E-04
879	577316.8	4193968	8.76E-03	1.41E-03	1.08E-04
880	577334.2	4193962	8.44E-03	1.36E-03	1.04E-04
881	577319	4193958	8.20E-03	1.32E-03	1.01E-04
882	577336.5	4193952	7.90E-03	1.27E-03	9.73E-05
883	577321.3	4193948	7.69E-03	1.24E-03	9.47E-05
884	577232.1	4194246	1.94E-01	3.12E-02	2.38E-03
885	577243.3	4194238	2.29E-01	3.70E-02	2.82E-03
886	577234.1	4194236	1.84E-01	2.96E-02	2.26E-03
887	577245.3	4194229	2.02E-01	3.26E-02	2.49E-03
888	577236.2	4194227	1.68E-01	2.71E-02	2.07E-03
889	577247.4	4194219	1.79E-01	2.88E-02	2.20E-03
890	577238.2	4194217	1.54E-01	2.48E-02	1.89E-03
891	577249.4	4194209	1.51E-01	2.43E-02	1.85E-03
892	577240.3	4194207	1.34E-01	2.15E-02	1.64E-03
893	577260.7	4194201	1.29E-01	2.09E-02	1.59E-03
894	577251.5	4194199	1.17E-01	1.89E-02	1.45E-03
895	577242.3	4194197	1.07E-01	1.72E-02	1.31E-03
896	577262.7	4194191	1.04E-01	1.67E-02	1.28E-03
897	577253.6	4194189	9.57E-02	1.54E-02	1.18E-03
898	577244.4	4194187	8.84E-02	1.43E-02	1.09E-03
899	577264.8	4194182	8.65E-02	1.39E-02	1.06E-03
900	577255.6	4194180	8.05E-02	1.30E-02	9.91E-04
901	577246.4	4194178	7.47E-02	1.20E-02	9.19E-04
902	577270.9	4194152	5.35E-02	8.62E-03	6.58E-04
903	577261.8	4194150	5.06E-02	8.16E-03	6.23E-04
904	577252.6	4194148	4.77E-02	7.69E-03	5.87E-04
905	577273	4194142	4.65E-02	7.49E-03	5.72E-04
906	577263.8	4194140	4.41E-02	7.11E-03	5.43E-04
907	577254.7	4194139	4.17E-02	6.73E-03	5.14E-04
908	577275.1	4194133	4.07E-02	6.56E-03	5.01E-04
909	577265.9	4194131	3.87E-02	6.25E-03	4.77E-04
910	577256.7	4194129	3.68E-02	5.93E-03	4.53E-04
911	577267.9	4194121	3.42E-02	5.52E-03	4.21E-04
912	577258.8	4194119	3.26E-02	5.26E-03	4.02E-04
913	577270	4194111	3.04E-02	4.91E-03	3.75E-04
914	577260.8	4194109	2.91E-02	4.69E-03	3.58E-04
915	577272.1	4194101	2.73E-02	4.40E-03	3.36E-04
916	577262.9	4194099	2.62E-02	4.22E-03	3.22E-04
917	577274.1	4194092	2.46E-02	3.96E-03	3.02E-04
918	577264.9	4194090	2.36E-02	3.81E-03	2.91E-04
919	577276.2	4194082	2.22E-02	3.58E-03	2.73E-04
920	577267	4194080	2.14E-02	3.45E-03	2.64E-04
921	577278.2	4194072	2.02E-02	3.25E-03	2.48E-04
922	577269.1	4194070	1.95E-02	3.14E-03	2.40E-04
923	577280.3	4194062	1.84E-02	2.97E-03	2.26E-04
924	577271.1	4194060	1.78E-02	2.87E-03	2.19E-04
925	577282.3	4194052	1.68E-02	2.71E-03	2.07E-04
926	577273.2	4194050	1.63E-02	2.63E-03	2.01E-04
927	577284.4	4194043	1.54E-02	2.49E-03	1.90E-04
928	577275.2	4194041	1.50E-02	2.42E-03	1.84E-04
929	577286.4	4194033	1.42E-02	2.29E-03	1.75E-04

930	577277.3	4194031	1.38E-02	2.22E-03	1.70E-04
931	577288.5	4194023	1.31E-02	2.11E-03	1.61E-04
932	577279.3	4194021	1.27E-02	2.05E-03	1.57E-04
933	577290.6	4194013	1.21E-02	1.95E-03	1.49E-04
934	577281.4	4194011	1.18E-02	1.90E-03	1.45E-04
935	577292.6	4194003	1.12E-02	1.81E-03	1.38E-04
936	577283.4	4194002	1.10E-02	1.77E-03	1.35E-04
937	577294.7	4193994	1.04E-02	1.68E-03	1.28E-04
938	577285.5	4193992	1.02E-02	1.65E-03	1.26E-04
939	577296.7	4193984	9.72E-03	1.57E-03	1.20E-04
940	577287.6	4193982	9.52E-03	1.53E-03	1.17E-04
941	577298.8	4193974	9.07E-03	1.46E-03	1.12E-04
942	577289.6	4193972	8.89E-03	1.43E-03	1.09E-04
943	577300.8	4193964	8.49E-03	1.37E-03	1.04E-04
944	577291.7	4193962	8.33E-03	1.34E-03	1.02E-04
945	577302.9	4193955	7.95E-03	1.28E-03	9.79E-05
946	577293.7	4193953	7.81E-03	1.26E-03	9.61E-05
947	577304.9	4193945	7.47E-03	1.20E-03	9.19E-05
948	577295.8	4193943	7.34E-03	1.18E-03	9.03E-05
949	577222.1	4194250	1.51E-01	2.44E-02	1.86E-03
950	577213.8	4194245	1.26E-01	2.03E-02	1.55E-03
951	577221	4194239	1.42E-01	2.29E-02	1.75E-03
952	577205.5	4194239	1.07E-01	1.72E-02	1.31E-03
953	577212.5	4194233	1.19E-01	1.92E-02	1.47E-03
954	577220.2	4194228	1.30E-01	2.09E-02	1.60E-03
955	577197.2	4194233	9.12E-02	1.47E-02	1.12E-03
956	577204.3	4194228	1.01E-01	1.63E-02	1.24E-03
957	577211.7	4194222	1.10E-01	1.77E-02	1.35E-03
958	577220.2	4194218	1.21E-01	1.95E-02	1.49E-03
959	577229.2	4194218	1.37E-01	2.20E-02	1.68E-03
960	577188.9	4194228	7.89E-02	1.27E-02	9.71E-04
961	577196	4194222	8.68E-02	1.40E-02	1.07E-03
962	577203.1	4194216	9.38E-02	1.51E-02	1.15E-03
963	577210.1	4194211	9.86E-02	1.59E-02	1.21E-03
964	577219.3	4194209	1.09E-01	1.76E-02	1.34E-03
965	577228.4	4194208	1.20E-01	1.94E-02	1.48E-03
966	577180.6	4194222	6.85E-02	1.10E-02	8.43E-04
967	577187.7	4194216	7.48E-02	1.21E-02	9.20E-04
968	577195.2	4194210	8.01E-02	1.29E-02	9.86E-04
969	577202.3	4194205	8.41E-02	1.36E-02	1.03E-03
970	577210.3	4194200	8.77E-02	1.41E-02	1.08E-03
971	577219.4	4194199	9.45E-02	1.52E-02	1.16E-03
972	577228.5	4194199	1.00E-01	1.62E-02	1.23E-03
973	577172.4	4194217	5.93E-02	9.57E-03	7.30E-04
974	577179.5	4194211	6.44E-02	1.04E-02	7.93E-04
975	577186.5	4194205	6.85E-02	1.11E-02	8.44E-04
976	577193.6	4194199	7.16E-02	1.15E-02	8.82E-04
977	577200.7	4194194	7.19E-02	1.16E-02	8.85E-04
978	577209.5	4194191	7.44E-02	1.20E-02	9.16E-04
979	577218.6	4194190	7.89E-02	1.27E-02	9.71E-04
980	577227.6	4194189	8.27E-02	1.33E-02	1.02E-03
981	577164.1	4194211	5.14E-02	8.29E-03	6.33E-04

982	577171.2	4194205	5.56E-02	8.96E-03	6.84E-04
983	577178.3	4194199	5.91E-02	9.52E-03	7.27E-04
984	577185.4	4194194	6.12E-02	9.86E-03	7.53E-04
985	577192.5	4194188	6.14E-02	9.89E-03	7.55E-04
986	577199.6	4194182	6.03E-02	9.72E-03	7.42E-04
987	577208.6	4194181	6.35E-02	1.02E-02	7.82E-04
988	577217.7	4194180	6.67E-02	1.07E-02	8.21E-04
989	577226.8	4194179	6.95E-02	1.12E-02	8.55E-04
990	577235.9	4194179	7.21E-02	1.16E-02	8.87E-04
991	577155.8	4194205	4.49E-02	7.24E-03	5.53E-04
992	577162.9	4194200	4.82E-02	7.77E-03	5.93E-04
993	577170	4194194	5.10E-02	8.22E-03	6.27E-04
994	577177.1	4194188	5.24E-02	8.46E-03	6.46E-04
995	577184.2	4194182	5.28E-02	8.52E-03	6.50E-04
996	577191.3	4194177	5.22E-02	8.41E-03	6.42E-04
997	577199.6	4194172	5.22E-02	8.41E-03	6.42E-04
998	577208.7	4194171	5.47E-02	8.83E-03	6.74E-04
999	577217.8	4194171	5.71E-02	9.20E-03	7.03E-04
1000	577226.9	4194170	5.93E-02	9.56E-03	7.29E-04
1001	577147.5	4194200	3.94E-02	6.35E-03	4.85E-04
1002	577154.6	4194194	4.21E-02	6.78E-03	5.18E-04
1003	577161.7	4194188	4.41E-02	7.12E-03	5.43E-04
1004	577168.8	4194182	4.54E-02	7.32E-03	5.59E-04
1005	577176	4194177	4.59E-02	7.40E-03	5.65E-04
1006	577183.1	4194171	4.56E-02	7.35E-03	5.61E-04
1007	577190.2	4194165	4.45E-02	7.17E-03	5.48E-04
1008	577139.2	4194194	3.47E-02	5.59E-03	4.27E-04
1009	577146.3	4194188	3.69E-02	5.95E-03	4.54E-04
1010	577153.5	4194183	3.85E-02	6.21E-03	4.74E-04
1011	577160.6	4194177	3.96E-02	6.38E-03	4.87E-04
1012	577167.7	4194171	4.02E-02	6.48E-03	4.94E-04
1013	577174.8	4194165	4.01E-02	6.47E-03	4.94E-04
1014	577130.9	4194189	3.06E-02	4.94E-03	3.77E-04
1015	577138	4194183	3.24E-02	5.23E-03	3.99E-04
1016	577145.1	4194177	3.38E-02	5.45E-03	4.16E-04
1017	577152.2	4194171	3.48E-02	5.61E-03	4.28E-04
1018	577159.2	4194166	3.54E-02	5.70E-03	4.35E-04
1019	577166.3	4194160	3.55E-02	5.73E-03	4.37E-04
1020	577216.5	4194142	3.81E-02	6.14E-03	4.69E-04
1021	577225.5	4194141	3.91E-02	6.31E-03	4.81E-04
1022	577234.6	4194140	4.00E-02	6.45E-03	4.93E-04
1023	577243.7	4194140	4.08E-02	6.59E-03	5.03E-04
1024	577122.6	4194183	2.72E-02	4.39E-03	3.35E-04
1025	577129.7	4194177	2.87E-02	4.62E-03	3.53E-04
1026	577136.8	4194171	2.99E-02	4.82E-03	3.68E-04
1027	577143.9	4194166	3.08E-02	4.97E-03	3.79E-04
1028	577151	4194160	3.14E-02	5.06E-03	3.86E-04
1029	577179.3	4194137	3.03E-02	4.88E-03	3.73E-04
1030	577188.4	4194135	3.09E-02	4.98E-03	3.80E-04
1031	577197.4	4194134	3.19E-02	5.14E-03	3.92E-04
1032	577206.5	4194133	3.28E-02	5.29E-03	4.04E-04
1033	577215.6	4194132	3.37E-02	5.43E-03	4.14E-04

1034	577224.7	4194132	3.45E-02	5.56E-03	4.25E-04
1035	577233.8	4194131	3.52E-02	5.68E-03	4.33E-04
1036	577242.9	4194130	3.59E-02	5.78E-03	4.42E-04
1037	577114.3	4194177	2.42E-02	3.91E-03	2.98E-04
1038	577121.4	4194172	2.55E-02	4.11E-03	3.14E-04
1039	577128.5	4194166	2.66E-02	4.29E-03	3.27E-04
1040	577135.6	4194160	2.74E-02	4.42E-03	3.37E-04
1041	577142.7	4194154	2.80E-02	4.51E-03	3.44E-04
1042	577171.1	4194131	2.74E-02	4.41E-03	3.37E-04
1043	577178.9	4194126	2.69E-02	4.34E-03	3.31E-04
1044	577188	4194125	2.78E-02	4.48E-03	3.42E-04
1045	577197	4194124	2.86E-02	4.60E-03	3.51E-04
1046	577206.1	4194124	2.93E-02	4.72E-03	3.60E-04
1047	577215.2	4194123	3.00E-02	4.83E-03	3.69E-04
1048	577224.3	4194122	3.06E-02	4.94E-03	3.77E-04
1049	577233.4	4194121	3.12E-02	5.03E-03	3.84E-04
1050	577242.5	4194120	3.17E-02	5.12E-03	3.91E-04
1051	577106.1	4194172	2.17E-02	3.50E-03	2.67E-04
1052	577113.1	4194166	2.28E-02	3.68E-03	2.81E-04
1053	577120.2	4194160	2.38E-02	3.83E-03	2.93E-04
1054	577127.3	4194155	2.45E-02	3.95E-03	3.02E-04
1055	577155.7	4194131	2.52E-02	4.06E-03	3.10E-04
1056	577162.8	4194126	2.48E-02	4.00E-03	3.06E-04
1057	577169.9	4194120	2.43E-02	3.92E-03	2.99E-04
1058	577178.5	4194117	2.44E-02	3.93E-03	3.00E-04
1059	577187.6	4194116	2.51E-02	4.04E-03	3.08E-04
1060	577196.7	4194115	2.57E-02	4.14E-03	3.16E-04
1061	577205.8	4194114	2.63E-02	4.23E-03	3.23E-04
1062	577214.9	4194113	2.68E-02	4.32E-03	3.30E-04
1063	577224	4194112	2.73E-02	4.41E-03	3.36E-04
1064	577233.1	4194112	2.78E-02	4.48E-03	3.42E-04
1065	577242.2	4194111	2.83E-02	4.56E-03	3.48E-04
1066	577251.3	4194110	2.87E-02	4.62E-03	3.53E-04
1067	577097.8	4194166	1.95E-02	3.15E-03	2.40E-04
1068	577104.9	4194160	2.05E-02	3.31E-03	2.52E-04
1069	577112	4194155	2.14E-02	3.44E-03	2.63E-04
1070	577119.1	4194149	2.20E-02	3.55E-03	2.71E-04
1071	577147.5	4194126	2.28E-02	3.68E-03	2.81E-04
1072	577154.6	4194120	2.26E-02	3.64E-03	2.78E-04
1073	577161.7	4194114	2.22E-02	3.58E-03	2.73E-04
1074	577168.8	4194109	2.17E-02	3.49E-03	2.67E-04
1075	577178.1	4194107	2.21E-02	3.57E-03	2.72E-04
1076	577187.2	4194106	2.27E-02	3.66E-03	2.79E-04
1077	577196.3	4194105	2.32E-02	3.74E-03	2.85E-04
1078	577205.4	4194105	2.37E-02	3.82E-03	2.91E-04
1079	577214.5	4194104	2.41E-02	3.89E-03	2.97E-04
1080	577223.6	4194103	2.45E-02	3.96E-03	3.02E-04
1081	577232.7	4194102	2.50E-02	4.02E-03	3.07E-04
1082	577241.8	4194101	2.53E-02	4.09E-03	3.12E-04
1083	577250.9	4194100	2.57E-02	4.14E-03	3.16E-04
1084	577089.5	4194161	1.77E-02	2.85E-03	2.17E-04
1085	577096.6	4194155	1.85E-02	2.99E-03	2.28E-04

1086	577103.7	4194149	1.93E-02	3.11E-03	2.37E-04
1087	577132.1	4194126	2.08E-02	3.35E-03	2.56E-04
1088	577139.2	4194120	2.08E-02	3.35E-03	2.56E-04
1089	577146.3	4194114	2.06E-02	3.32E-03	2.53E-04
1090	577153.4	4194109	2.03E-02	3.27E-03	2.50E-04
1091	577160.5	4194103	1.99E-02	3.21E-03	2.45E-04
1092	577168.6	4194098	1.96E-02	3.17E-03	2.42E-04
1093	577177.7	4194097	2.01E-02	3.25E-03	2.48E-04
1094	577186.8	4194097	2.06E-02	3.32E-03	2.53E-04
1095	577195.9	4194096	2.10E-02	3.39E-03	2.59E-04
1096	577205	4194095	2.14E-02	3.45E-03	2.63E-04
1097	577214.1	4194094	2.18E-02	3.51E-03	2.68E-04
1098	577223.2	4194093	2.22E-02	3.57E-03	2.73E-04
1099	577232.3	4194093	2.25E-02	3.63E-03	2.77E-04
1100	577241.5	4194092	2.29E-02	3.69E-03	2.81E-04
1101	577250.6	4194091	2.32E-02	3.74E-03	2.85E-04
1102	577081.2	4194155	1.60E-02	2.59E-03	1.98E-04
1103	577088.3	4194149	1.68E-02	2.71E-03	2.07E-04
1104	577095.4	4194143	1.75E-02	2.82E-03	2.15E-04
1105	577123.9	4194120	1.89E-02	3.05E-03	2.33E-04
1106	577131	4194115	1.90E-02	3.06E-03	2.33E-04
1107	577138.1	4194109	1.88E-02	3.04E-03	2.32E-04
1108	577145.2	4194103	1.86E-02	3.00E-03	2.29E-04
1109	577152.3	4194097	1.83E-02	2.95E-03	2.25E-04
1110	577159.4	4194092	1.79E-02	2.89E-03	2.20E-04
1111	577168.2	4194089	1.80E-02	2.90E-03	2.21E-04
1112	577177.3	4194088	1.84E-02	2.96E-03	2.26E-04
1113	577186.4	4194087	1.88E-02	3.02E-03	2.31E-04
1114	577195.5	4194086	1.91E-02	3.08E-03	2.35E-04
1115	577204.6	4194085	1.94E-02	3.13E-03	2.39E-04
1116	577213.7	4194085	1.98E-02	3.19E-03	2.43E-04
1117	577222.9	4194084	2.01E-02	3.24E-03	2.47E-04
1118	577232	4194083	2.04E-02	3.29E-03	2.51E-04
1119	577241.1	4194082	2.07E-02	3.34E-03	2.55E-04
1120	577250.2	4194081	2.10E-02	3.38E-03	2.58E-04
1121	577072.9	4194149	1.46E-02	2.36E-03	1.80E-04
1122	577080	4194144	1.53E-02	2.47E-03	1.88E-04
1123	577108.5	4194121	1.71E-02	2.76E-03	2.11E-04
1124	577115.6	4194115	1.73E-02	2.79E-03	2.13E-04
1125	577122.7	4194109	1.73E-02	2.80E-03	2.14E-04
1126	577129.8	4194103	1.73E-02	2.79E-03	2.13E-04
1127	577136.9	4194097	1.71E-02	2.76E-03	2.11E-04
1128	577144	4194092	1.69E-02	2.72E-03	2.08E-04
1129	577151.2	4194086	1.65E-02	2.67E-03	2.04E-04
1130	577158.3	4194080	1.62E-02	2.61E-03	1.99E-04
1131	577167.3	4194079	1.65E-02	2.66E-03	2.03E-04
1132	577176.4	4194078	1.68E-02	2.71E-03	2.07E-04
1133	577185.5	4194077	1.71E-02	2.76E-03	2.11E-04
1134	577194.7	4194077	1.74E-02	2.81E-03	2.14E-04
1135	577203.8	4194076	1.77E-02	2.86E-03	2.18E-04
1136	577212.9	4194075	1.80E-02	2.90E-03	2.22E-04
1137	577222	4194074	1.83E-02	2.95E-03	2.25E-04

1138	577231.1	4194073	1.86E-02	2.99E-03	2.28E-04
1139	577240.3	4194073	1.88E-02	3.03E-03	2.32E-04
1140	577249.4	4194072	1.90E-02	3.07E-03	2.34E-04
1141	577258.5	4194071	1.93E-02	3.11E-03	2.37E-04
1142	577064.6	4194144	1.34E-02	2.16E-03	1.65E-04
1143	577093.1	4194121	1.54E-02	2.48E-03	1.89E-04
1144	577100.2	4194115	1.57E-02	2.52E-03	1.93E-04
1145	577107.3	4194109	1.58E-02	2.55E-03	1.95E-04
1146	577114.4	4194103	1.59E-02	2.57E-03	1.96E-04
1147	577121.6	4194098	1.59E-02	2.56E-03	1.96E-04
1148	577128.7	4194092	1.58E-02	2.54E-03	1.94E-04
1149	577135.8	4194086	1.56E-02	2.51E-03	1.92E-04
1150	577142.9	4194080	1.53E-02	2.47E-03	1.89E-04
1151	577150	4194075	1.50E-02	2.42E-03	1.85E-04
1152	577158.3	4194070	1.49E-02	2.40E-03	1.83E-04
1153	577167.4	4194070	1.52E-02	2.45E-03	1.87E-04
1154	577176.5	4194069	1.55E-02	2.49E-03	1.90E-04
1155	577185.6	4194068	1.57E-02	2.54E-03	1.94E-04
1156	577194.8	4194067	1.60E-02	2.57E-03	1.97E-04
1157	577203.9	4194066	1.62E-02	2.61E-03	2.00E-04
1158	577213	4194065	1.65E-02	2.65E-03	2.03E-04
1159	577222.1	4194065	1.67E-02	2.69E-03	2.06E-04
1160	577231.3	4194064	1.69E-02	2.73E-03	2.09E-04
1161	577240.4	4194063	1.72E-02	2.77E-03	2.11E-04
1162	577249.5	4194062	1.74E-02	2.80E-03	2.14E-04
1163	577258.6	4194061	1.76E-02	2.83E-03	2.16E-04
1164	577056.3	4194138	1.23E-02	1.98E-03	1.51E-04
1165	577084.8	4194115	1.41E-02	2.27E-03	1.73E-04
1166	577091.9	4194109	1.44E-02	2.32E-03	1.77E-04
1167	577099	4194104	1.46E-02	2.35E-03	1.79E-04
1168	577106.2	4194098	1.46E-02	2.36E-03	1.80E-04
1169	577113.3	4194092	1.47E-02	2.36E-03	1.80E-04
1170	577120.4	4194086	1.46E-02	2.35E-03	1.79E-04
1171	577127.5	4194080	1.44E-02	2.33E-03	1.78E-04
1172	577134.6	4194075	1.42E-02	2.29E-03	1.75E-04
1173	577141.8	4194069	1.40E-02	2.25E-03	1.72E-04
1174	577148.9	4194063	1.37E-02	2.20E-03	1.68E-04
1175	577157.9	4194061	1.38E-02	2.22E-03	1.69E-04
1176	577167	4194060	1.40E-02	2.26E-03	1.72E-04
1177	577176.1	4194059	1.42E-02	2.30E-03	1.75E-04
1178	577185.2	4194058	1.45E-02	2.33E-03	1.78E-04
1179	577194.4	4194057	1.47E-02	2.37E-03	1.81E-04
1180	577203.5	4194057	1.49E-02	2.40E-03	1.83E-04
1181	577212.6	4194056	1.51E-02	2.43E-03	1.86E-04
1182	577221.8	4194055	1.53E-02	2.47E-03	1.88E-04
1183	577230.9	4194054	1.55E-02	2.50E-03	1.91E-04
1184	577240	4194053	1.57E-02	2.54E-03	1.94E-04
1185	577249.1	4194053	1.59E-02	2.57E-03	1.96E-04
1186	577258.3	4194052	1.61E-02	2.59E-03	1.98E-04
1187	577069.4	4194115	1.26E-02	2.04E-03	1.56E-04
1188	577076.5	4194110	1.30E-02	2.09E-03	1.60E-04
1189	577083.6	4194104	1.32E-02	2.13E-03	1.63E-04

1190	577090.8	4194098	1.34E-02	2.16E-03	1.65E-04
1191	577097.9	4194092	1.35E-02	2.18E-03	1.66E-04
1192	577105	4194086	1.35E-02	2.18E-03	1.67E-04
1193	577112.1	4194081	1.35E-02	2.18E-03	1.66E-04
1194	577119.3	4194075	1.34E-02	2.16E-03	1.65E-04
1195	577126.4	4194069	1.32E-02	2.13E-03	1.63E-04
1196	577133.5	4194063	1.30E-02	2.10E-03	1.60E-04
1197	577140.6	4194058	1.28E-02	2.06E-03	1.57E-04
1198	577147.9	4194052	1.25E-02	2.02E-03	1.54E-04
1199	577157	4194051	1.27E-02	2.05E-03	1.57E-04
1200	577166.1	4194050	1.29E-02	2.09E-03	1.59E-04
1201	577175.3	4194050	1.31E-02	2.12E-03	1.62E-04
1202	577184.4	4194049	1.33E-02	2.15E-03	1.64E-04
1203	577193.5	4194048	1.35E-02	2.18E-03	1.66E-04
1204	577202.7	4194047	1.37E-02	2.21E-03	1.69E-04
1205	577211.8	4194046	1.39E-02	2.24E-03	1.71E-04
1206	577220.9	4194046	1.41E-02	2.27E-03	1.73E-04
1207	577230	4194045	1.43E-02	2.30E-03	1.75E-04
1208	577239.2	4194044	1.44E-02	2.33E-03	1.78E-04
1209	577248.3	4194043	1.46E-02	2.36E-03	1.80E-04
1210	577257.4	4194042	1.48E-02	2.38E-03	1.82E-04
1211	577061	4194110	1.17E-02	1.88E-03	1.43E-04
1212	577068.1	4194104	1.20E-02	1.93E-03	1.47E-04
1213	577075.2	4194098	1.22E-02	1.97E-03	1.50E-04
1214	577082.3	4194092	1.24E-02	1.99E-03	1.52E-04
1215	577089.4	4194087	1.25E-02	2.01E-03	1.54E-04
1216	577096.5	4194081	1.25E-02	2.02E-03	1.54E-04
1217	577103.6	4194075	1.25E-02	2.02E-03	1.54E-04
1218	577110.7	4194069	1.24E-02	2.01E-03	1.53E-04
1219	577117.8	4194064	1.23E-02	1.99E-03	1.52E-04
1220	577124.9	4194058	1.22E-02	1.96E-03	1.50E-04
1221	577132	4194052	1.19E-02	1.93E-03	1.47E-04
1222	577139.1	4194046	1.17E-02	1.89E-03	1.44E-04
1223	577147.5	4194042	1.16E-02	1.87E-03	1.43E-04
1224	577156.6	4194042	1.18E-02	1.90E-03	1.45E-04
1225	577165.7	4194041	1.20E-02	1.93E-03	1.48E-04
1226	577174.8	4194040	1.22E-02	1.96E-03	1.50E-04
1227	577183.9	4194039	1.23E-02	1.99E-03	1.52E-04
1228	577193	4194038	1.25E-02	2.01E-03	1.54E-04
1229	577202.1	4194038	1.26E-02	2.04E-03	1.56E-04
1230	577211.2	4194037	1.28E-02	2.07E-03	1.58E-04
1231	577220.3	4194036	1.30E-02	2.09E-03	1.60E-04
1232	577229.4	4194035	1.31E-02	2.12E-03	1.62E-04
1233	577238.5	4194034	1.33E-02	2.14E-03	1.64E-04
1234	577247.6	4194034	1.34E-02	2.17E-03	1.65E-04
1235	577256.7	4194033	1.36E-02	2.19E-03	1.67E-04
1236	577265.8	4194032	1.37E-02	2.21E-03	1.68E-04
1237	577045.7	4194110	1.05E-02	1.69E-03	1.29E-04
1238	577052.8	4194104	1.08E-02	1.74E-03	1.33E-04
1239	577059.9	4194098	1.11E-02	1.78E-03	1.36E-04
1240	577067	4194093	1.13E-02	1.82E-03	1.39E-04
1241	577074.1	4194087	1.15E-02	1.85E-03	1.41E-04

1242	577081.2	4194081	1.16E-02	1.87E-03	1.42E-04
1243	577088.3	4194075	1.16E-02	1.87E-03	1.43E-04
1244	577095.4	4194070	1.16E-02	1.88E-03	1.43E-04
1245	577102.5	4194064	1.16E-02	1.87E-03	1.43E-04
1246	577109.6	4194058	1.15E-02	1.85E-03	1.41E-04
1247	577116.7	4194052	1.14E-02	1.83E-03	1.40E-04
1248	577123.8	4194047	1.12E-02	1.80E-03	1.38E-04
1249	577130.9	4194041	1.10E-02	1.77E-03	1.35E-04
1250	577138	4194035	1.07E-02	1.73E-03	1.32E-04
1251	577147.1	4194033	1.08E-02	1.74E-03	1.33E-04
1252	577156.2	4194032	1.10E-02	1.77E-03	1.35E-04
1253	577165.3	4194031	1.11E-02	1.79E-03	1.37E-04
1254	577174.4	4194030	1.13E-02	1.82E-03	1.39E-04
1255	577183.5	4194030	1.14E-02	1.84E-03	1.41E-04
1256	577192.6	4194029	1.16E-02	1.86E-03	1.42E-04
1257	577201.7	4194028	1.17E-02	1.89E-03	1.44E-04
1258	577210.8	4194027	1.19E-02	1.91E-03	1.46E-04
1259	577219.9	4194026	1.20E-02	1.94E-03	1.48E-04
1260	577229	4194026	1.21E-02	1.96E-03	1.50E-04
1261	577238.1	4194025	1.23E-02	1.98E-03	1.51E-04
1262	577247.2	4194024	1.24E-02	2.00E-03	1.53E-04
1263	577256.3	4194023	1.25E-02	2.02E-03	1.54E-04
1264	577265.4	4194022	1.26E-02	2.04E-03	1.55E-04
1265	577037.4	4194104	9.70E-03	1.56E-03	1.19E-04
1266	577044.5	4194099	1.00E-02	1.61E-03	1.23E-04
1267	577051.6	4194093	1.02E-02	1.65E-03	1.26E-04
1268	577058.7	4194087	1.05E-02	1.69E-03	1.29E-04
1269	577065.8	4194081	1.06E-02	1.71E-03	1.31E-04
1270	577072.9	4194076	1.07E-02	1.73E-03	1.32E-04
1271	577080	4194070	1.08E-02	1.74E-03	1.33E-04
1272	577087.1	4194064	1.08E-02	1.75E-03	1.33E-04
1273	577094.2	4194058	1.08E-02	1.74E-03	1.33E-04
1274	577101.3	4194052	1.07E-02	1.73E-03	1.32E-04
1275	577108.4	4194047	1.06E-02	1.71E-03	1.31E-04
1276	577115.5	4194041	1.05E-02	1.69E-03	1.29E-04
1277	577122.6	4194035	1.03E-02	1.66E-03	1.27E-04
1278	577129.8	4194029	1.01E-02	1.63E-03	1.24E-04
1279	577137.1	4194024	9.93E-03	1.60E-03	1.22E-04
1280	577146.2	4194023	1.01E-02	1.63E-03	1.24E-04
1281	577155.3	4194023	1.02E-02	1.65E-03	1.26E-04
1282	577164.4	4194022	1.04E-02	1.67E-03	1.27E-04
1283	577173.5	4194021	1.05E-02	1.69E-03	1.29E-04
1284	577182.6	4194020	1.06E-02	1.71E-03	1.31E-04
1285	577191.7	4194019	1.07E-02	1.73E-03	1.32E-04
1286	577200.8	4194019	1.09E-02	1.75E-03	1.34E-04
1287	577210	4194018	1.10E-02	1.77E-03	1.35E-04
1288	577219.1	4194017	1.11E-02	1.79E-03	1.37E-04
1289	577228.2	4194016	1.13E-02	1.81E-03	1.39E-04
1290	577237.3	4194015	1.14E-02	1.83E-03	1.40E-04
1291	577246.4	4194014	1.15E-02	1.85E-03	1.41E-04
1292	577255.5	4194014	1.16E-02	1.87E-03	1.43E-04
1293	577264.6	4194013	1.17E-02	1.88E-03	1.44E-04

1294	577022	4194104	8.71E-03	1.40E-03	1.07E-04
1295	577029.1	4194099	9.01E-03	1.45E-03	1.11E-04
1296	577036.2	4194093	9.28E-03	1.50E-03	1.14E-04
1297	577043.3	4194087	9.52E-03	1.53E-03	1.17E-04
1298	577050.4	4194081	9.72E-03	1.57E-03	1.20E-04
1299	577057.5	4194076	9.88E-03	1.59E-03	1.22E-04
1300	577064.6	4194070	9.99E-03	1.61E-03	1.23E-04
1301	577071.7	4194064	1.01E-02	1.62E-03	1.24E-04
1302	577078.9	4194058	1.01E-02	1.63E-03	1.24E-04
1303	577086	4194053	1.01E-02	1.63E-03	1.24E-04
1304	577093.1	4194047	1.00E-02	1.62E-03	1.24E-04
1305	577100.2	4194041	9.95E-03	1.60E-03	1.22E-04
1306	577107.3	4194035	9.84E-03	1.59E-03	1.21E-04
1307	577114.4	4194030	9.69E-03	1.56E-03	1.19E-04
1308	577121.5	4194024	9.52E-03	1.54E-03	1.17E-04
1309	577128.6	4194018	9.33E-03	1.50E-03	1.15E-04
1310	577137.2	4194015	9.30E-03	1.50E-03	1.14E-04
1311	577146.3	4194014	9.43E-03	1.52E-03	1.16E-04
1312	577155.4	4194013	9.55E-03	1.54E-03	1.17E-04
1313	577164.5	4194012	9.66E-03	1.56E-03	1.19E-04
1314	577173.6	4194011	9.77E-03	1.57E-03	1.20E-04
1315	577182.7	4194011	9.88E-03	1.59E-03	1.22E-04
1316	577191.8	4194010	9.99E-03	1.61E-03	1.23E-04
1317	577200.9	4194009	1.01E-02	1.63E-03	1.24E-04
1318	577210.1	4194008	1.02E-02	1.65E-03	1.26E-04
1319	577219.2	4194007	1.03E-02	1.67E-03	1.27E-04
1320	577228.3	4194006	1.05E-02	1.69E-03	1.29E-04
1321	577237.4	4194006	1.06E-02	1.71E-03	1.30E-04
1322	577246.5	4194005	1.07E-02	1.72E-03	1.31E-04
1323	577255.6	4194004	1.08E-02	1.74E-03	1.33E-04
1324	577264.7	4194003	1.09E-02	1.75E-03	1.34E-04
1325	577273.9	4194002	1.09E-02	1.76E-03	1.34E-04
1326	577006.6	4194105	7.83E-03	1.26E-03	9.63E-05
1327	577013.7	4194099	8.12E-03	1.31E-03	9.99E-05
1328	577020.8	4194093	8.39E-03	1.35E-03	1.03E-04
1329	577027.9	4194087	8.64E-03	1.39E-03	1.06E-04
1330	577035	4194082	8.86E-03	1.43E-03	1.09E-04
1331	577042.1	4194076	9.05E-03	1.46E-03	1.11E-04
1332	577049.3	4194070	9.20E-03	1.48E-03	1.13E-04
1333	577056.4	4194064	9.32E-03	1.50E-03	1.15E-04
1334	577063.5	4194059	9.39E-03	1.51E-03	1.16E-04
1335	577070.6	4194053	9.44E-03	1.52E-03	1.16E-04
1336	577077.7	4194047	9.44E-03	1.52E-03	1.16E-04
1337	577084.8	4194041	9.40E-03	1.52E-03	1.16E-04
1338	577091.9	4194035	9.34E-03	1.51E-03	1.15E-04
1339	577099	4194030	9.24E-03	1.49E-03	1.14E-04
1340	577106.1	4194024	9.12E-03	1.47E-03	1.12E-04
1341	577113.3	4194018	8.98E-03	1.45E-03	1.10E-04
1342	577120.4	4194012	8.81E-03	1.42E-03	1.08E-04
1343	577127.5	4194007	8.63E-03	1.39E-03	1.06E-04
1344	577136.8	4194005	8.71E-03	1.40E-03	1.07E-04
1345	577145.9	4194004	8.82E-03	1.42E-03	1.09E-04

1346	577155	4194003	8.92E-03	1.44E-03	1.10E-04
1347	577164.1	4194003	9.02E-03	1.45E-03	1.11E-04
1348	577173.2	4194002	9.12E-03	1.47E-03	1.12E-04
1349	577182.3	4194001	9.22E-03	1.49E-03	1.13E-04
1350	577191.5	4194000	9.32E-03	1.50E-03	1.15E-04
1351	577200.6	4193999	9.42E-03	1.52E-03	1.16E-04
1352	577209.7	4193999	9.53E-03	1.54E-03	1.17E-04
1353	577218.8	4193998	9.64E-03	1.55E-03	1.19E-04
1354	577227.9	4193997	9.75E-03	1.57E-03	1.20E-04
1355	577237	4193996	9.86E-03	1.59E-03	1.21E-04
1356	577246.2	4193995	9.95E-03	1.60E-03	1.22E-04
1357	577255.3	4193994	1.00E-02	1.62E-03	1.23E-04
1358	577264.4	4193994	1.01E-02	1.63E-03	1.24E-04
1359	577273.5	4193993	1.02E-02	1.64E-03	1.25E-04
1360	576998.3	4194099	7.31E-03	1.18E-03	9.00E-05
1361	577005.4	4194093	7.58E-03	1.22E-03	9.33E-05
1362	577012.5	4194088	7.83E-03	1.26E-03	9.64E-05
1363	577019.6	4194082	8.06E-03	1.30E-03	9.92E-05
1364	577026.8	4194076	8.26E-03	1.33E-03	1.02E-04
1365	577033.9	4194070	8.44E-03	1.36E-03	1.04E-04
1366	577041	4194064	8.58E-03	1.38E-03	1.06E-04
1367	577048.1	4194059	8.70E-03	1.40E-03	1.07E-04
1368	577055.2	4194053	8.78E-03	1.42E-03	1.08E-04
1369	577062.3	4194047	8.83E-03	1.42E-03	1.09E-04
1370	577069.4	4194041	8.84E-03	1.43E-03	1.09E-04
1371	577076.5	4194036	8.82E-03	1.42E-03	1.09E-04
1372	577083.7	4194030	8.77E-03	1.41E-03	1.08E-04
1373	577090.8	4194024	8.70E-03	1.40E-03	1.07E-04
1374	577097.9	4194018	8.60E-03	1.39E-03	1.06E-04
1375	577105	4194013	8.47E-03	1.37E-03	1.04E-04
1376	577112.1	4194007	8.33E-03	1.34E-03	1.03E-04
1377	577119.2	4194001	8.17E-03	1.32E-03	1.01E-04
1378	577127.2	4193996	8.07E-03	1.30E-03	9.93E-05
1379	577136.4	4193995	8.17E-03	1.32E-03	1.01E-04
1380	577145.5	4193995	8.27E-03	1.33E-03	1.02E-04
1381	577154.6	4193994	8.36E-03	1.35E-03	1.03E-04
1382	577163.7	4193993	8.44E-03	1.36E-03	1.04E-04
1383	577172.8	4193992	8.53E-03	1.38E-03	1.05E-04
1384	577182	4193991	8.62E-03	1.39E-03	1.06E-04
1385	577191.1	4193991	8.71E-03	1.40E-03	1.07E-04
1386	577200.2	4193990	8.80E-03	1.42E-03	1.08E-04
1387	577209.3	4193989	8.90E-03	1.44E-03	1.10E-04
1388	577218.4	4193988	9.01E-03	1.45E-03	1.11E-04
1389	577227.6	4193987	9.11E-03	1.47E-03	1.12E-04
1390	577236.7	4193987	9.20E-03	1.48E-03	1.13E-04
1391	577245.8	4193986	9.28E-03	1.50E-03	1.14E-04
1392	577254.9	4193985	9.36E-03	1.51E-03	1.15E-04
1393	577264	4193984	9.42E-03	1.52E-03	1.16E-04
1394	577273.2	4193983	9.47E-03	1.53E-03	1.17E-04
1395	576990	4194093	6.85E-03	1.10E-03	8.43E-05
1396	576997.1	4194088	7.10E-03	1.14E-03	8.74E-05
1397	577004.2	4194082	7.33E-03	1.18E-03	9.02E-05

1398	577011.4	4194076	7.54E-03	1.21E-03	9.27E-05
1399	577018.5	4194070	7.72E-03	1.25E-03	9.51E-05
1400	577025.6	4194065	7.89E-03	1.27E-03	9.71E-05
1401	577032.7	4194059	8.03E-03	1.29E-03	9.88E-05
1402	577039.8	4194053	8.14E-03	1.31E-03	1.00E-04
1403	577046.9	4194047	8.21E-03	1.32E-03	1.01E-04
1404	577054.1	4194042	8.27E-03	1.33E-03	1.02E-04
1405	577061.2	4194036	8.29E-03	1.34E-03	1.02E-04
1406	577068.3	4194030	8.28E-03	1.34E-03	1.02E-04
1407	577075.4	4194024	8.25E-03	1.33E-03	1.02E-04
1408	577082.5	4194018	8.19E-03	1.32E-03	1.01E-04
1409	577089.6	4194013	8.11E-03	1.31E-03	9.98E-05
1410	577096.7	4194007	8.01E-03	1.29E-03	9.85E-05
1411	577103.9	4194001	7.88E-03	1.27E-03	9.70E-05
1412	577111	4193995	7.75E-03	1.25E-03	9.53E-05
1413	577118.1	4193990	7.60E-03	1.22E-03	9.35E-05
1414	577126.9	4193987	7.59E-03	1.22E-03	9.34E-05
1415	577136	4193986	7.68E-03	1.24E-03	9.45E-05
1416	577145.1	4193985	7.76E-03	1.25E-03	9.55E-05
1417	577154.2	4193984	7.84E-03	1.26E-03	9.65E-05
1418	577163.3	4193983	7.91E-03	1.28E-03	9.74E-05
1419	577172.5	4193983	7.99E-03	1.29E-03	9.84E-05
1420	577181.6	4193982	8.07E-03	1.30E-03	9.93E-05
1421	577190.7	4193981	8.15E-03	1.31E-03	1.00E-04
1422	577199.8	4193980	8.24E-03	1.33E-03	1.01E-04
1423	577209	4193979	8.33E-03	1.34E-03	1.03E-04
1424	577218.1	4193979	8.42E-03	1.36E-03	1.04E-04
1425	577227.2	4193978	8.52E-03	1.37E-03	1.05E-04
1426	577236.3	4193977	8.60E-03	1.39E-03	1.06E-04
1427	577245.4	4193976	8.68E-03	1.40E-03	1.07E-04
1428	577254.6	4193975	8.75E-03	1.41E-03	1.08E-04
1429	577263.7	4193974	8.81E-03	1.42E-03	1.08E-04
1430	577272.8	4193974	8.85E-03	1.43E-03	1.09E-04
1431	576981.7	4194088	6.43E-03	1.04E-03	7.91E-05
1432	576988.8	4194082	6.66E-03	1.07E-03	8.20E-05
1433	576996	4194076	6.87E-03	1.11E-03	8.45E-05
1434	577003.1	4194071	7.06E-03	1.14E-03	8.69E-05
1435	577010.2	4194065	7.24E-03	1.17E-03	8.91E-05
1436	577017.3	4194059	7.39E-03	1.19E-03	9.10E-05
1437	577024.4	4194053	7.53E-03	1.21E-03	9.26E-05
1438	577031.5	4194047	7.63E-03	1.23E-03	9.39E-05
1439	577038.7	4194042	7.70E-03	1.24E-03	9.48E-05
1440	577045.8	4194036	7.76E-03	1.25E-03	9.55E-05
1441	577052.9	4194030	7.79E-03	1.26E-03	9.59E-05
1442	577060	4194024	7.79E-03	1.26E-03	9.59E-05
1443	577067.1	4194019	7.77E-03	1.25E-03	9.56E-05
1444	577074.3	4194013	7.72E-03	1.24E-03	9.50E-05
1445	577081.4	4194007	7.65E-03	1.23E-03	9.42E-05
1446	577088.5	4194001	7.57E-03	1.22E-03	9.32E-05
1447	577095.6	4193996	7.47E-03	1.20E-03	9.19E-05
1448	577102.7	4193990	7.35E-03	1.18E-03	9.04E-05
1449	577109.8	4193984	7.21E-03	1.16E-03	8.88E-05

1450	577117	4193978	7.07E-03	1.14E-03	8.70E-05
1451	577126	4193977	7.14E-03	1.15E-03	8.79E-05
1452	577135.1	4193976	7.22E-03	1.16E-03	8.89E-05
1453	577144.2	4193976	7.29E-03	1.18E-03	8.98E-05
1454	577153.4	4193975	7.36E-03	1.19E-03	9.06E-05
1455	577162.5	4193974	7.43E-03	1.20E-03	9.14E-05
1456	577171.6	4193973	7.50E-03	1.21E-03	9.23E-05
1457	577180.7	4193972	7.57E-03	1.22E-03	9.31E-05
1458	577189.9	4193971	7.64E-03	1.23E-03	9.41E-05
1459	577199	4193971	7.72E-03	1.25E-03	9.51E-05
1460	577208.1	4193970	7.81E-03	1.26E-03	9.61E-05
1461	577217.2	4193969	7.89E-03	1.27E-03	9.71E-05
1462	577226.4	4193968	7.98E-03	1.29E-03	9.82E-05
1463	577235.5	4193967	8.06E-03	1.30E-03	9.92E-05
1464	577244.6	4193967	8.13E-03	1.31E-03	1.00E-04
1465	577253.7	4193966	8.19E-03	1.32E-03	1.01E-04
1466	577262.9	4193965	8.24E-03	1.33E-03	1.01E-04
1467	577272	4193964	8.28E-03	1.34E-03	1.02E-04
1468	577281.1	4193963	8.31E-03	1.34E-03	1.02E-04
1469	576973.4	4194082	6.04E-03	9.74E-04	7.43E-05
1470	576980.6	4194076	6.26E-03	1.01E-03	7.70E-05
1471	576987.7	4194071	6.45E-03	1.04E-03	7.94E-05
1472	576994.8	4194065	6.63E-03	1.07E-03	8.16E-05
1473	577001.9	4194059	6.79E-03	1.10E-03	8.36E-05
1474	577009	4194053	6.94E-03	1.12E-03	8.54E-05
1475	577016.2	4194048	7.07E-03	1.14E-03	8.70E-05
1476	577023.3	4194042	7.17E-03	1.16E-03	8.82E-05
1477	577030.4	4194036	7.24E-03	1.17E-03	8.91E-05
1478	577037.5	4194030	7.30E-03	1.18E-03	8.98E-05
1479	577044.6	4194025	7.33E-03	1.18E-03	9.02E-05
1480	577051.8	4194019	7.34E-03	1.18E-03	9.03E-05
1481	577058.9	4194013	7.32E-03	1.18E-03	9.01E-05
1482	577066	4194007	7.29E-03	1.18E-03	8.97E-05
1483	577073.1	4194001	7.23E-03	1.17E-03	8.90E-05
1484	577080.2	4193996	7.16E-03	1.15E-03	8.82E-05
1485	577087.3	4193990	7.08E-03	1.14E-03	8.71E-05
1486	577094.5	4193984	6.97E-03	1.12E-03	8.58E-05
1487	577101.6	4193978	6.86E-03	1.11E-03	8.44E-05
1488	577108.7	4193973	6.73E-03	1.09E-03	8.29E-05
1489	577116.9	4193968	6.67E-03	1.08E-03	8.21E-05
1490	577126.1	4193968	6.74E-03	1.09E-03	8.30E-05
1491	577135.2	4193967	6.81E-03	1.10E-03	8.38E-05
1492	577144.3	4193966	6.87E-03	1.11E-03	8.46E-05
1493	577153.5	4193965	6.93E-03	1.12E-03	8.53E-05
1494	577162.6	4193964	6.99E-03	1.13E-03	8.60E-05
1495	577171.7	4193963	7.05E-03	1.14E-03	8.68E-05
1496	577180.8	4193963	7.12E-03	1.15E-03	8.76E-05
1497	577190	4193962	7.19E-03	1.16E-03	8.85E-05
1498	577199.1	4193961	7.26E-03	1.17E-03	8.94E-05
1499	577208.2	4193960	7.34E-03	1.18E-03	9.03E-05
1500	577217.3	4193959	7.42E-03	1.20E-03	9.13E-05
1501	577226.5	4193959	7.49E-03	1.21E-03	9.22E-05

1502	577235.6	4193958	7.57E-03	1.22E-03	9.31E-05
1503	577244.7	4193957	7.63E-03	1.23E-03	9.39E-05
1504	577253.9	4193956	7.69E-03	1.24E-03	9.47E-05
1505	577263	4193955	7.74E-03	1.25E-03	9.52E-05
1506	577272.1	4193955	7.77E-03	1.25E-03	9.56E-05
1507	577281.2	4193954	7.79E-03	1.26E-03	9.59E-05
1508	576965.1	4194077	5.68E-03	9.16E-04	6.99E-05
1509	576972.3	4194071	5.89E-03	9.49E-04	7.25E-05
1510	576979.4	4194065	6.07E-03	9.78E-04	7.47E-05
1511	576986.5	4194059	6.23E-03	1.00E-03	7.67E-05
1512	576993.6	4194054	6.39E-03	1.03E-03	7.86E-05
1513	577000.8	4194048	6.52E-03	1.05E-03	8.03E-05
1514	577007.9	4194042	6.64E-03	1.07E-03	8.18E-05
1515	577015	4194036	6.74E-03	1.09E-03	8.29E-05
1516	577022.1	4194030	6.81E-03	1.10E-03	8.39E-05
1517	577029.2	4194025	6.87E-03	1.11E-03	8.45E-05
1518	577036.4	4194019	6.90E-03	1.11E-03	8.50E-05
1519	577043.5	4194013	6.92E-03	1.12E-03	8.51E-05
1520	577050.6	4194007	6.91E-03	1.11E-03	8.51E-05
1521	577057.7	4194002	6.89E-03	1.11E-03	8.48E-05
1522	577064.8	4193996	6.84E-03	1.10E-03	8.42E-05
1523	577072	4193990	6.78E-03	1.09E-03	8.35E-05
1524	577079.1	4193984	6.71E-03	1.08E-03	8.26E-05
1525	577086.2	4193979	6.62E-03	1.07E-03	8.15E-05
1526	577093.3	4193973	6.52E-03	1.05E-03	8.03E-05
1527	577100.5	4193967	6.41E-03	1.03E-03	7.89E-05
1528	577107.6	4193961	6.29E-03	1.01E-03	7.74E-05
1529	577116.6	4193959	6.30E-03	1.02E-03	7.76E-05
1530	577125.7	4193958	6.37E-03	1.03E-03	7.83E-05
1531	577134.8	4193957	6.42E-03	1.04E-03	7.91E-05
1532	577143.9	4193956	6.48E-03	1.04E-03	7.97E-05
1533	577153.1	4193956	6.53E-03	1.05E-03	8.04E-05
1534	577162.2	4193955	6.58E-03	1.06E-03	8.10E-05
1535	577171.3	4193954	6.64E-03	1.07E-03	8.17E-05
1536	577180.5	4193953	6.70E-03	1.08E-03	8.25E-05
1537	577189.6	4193952	6.77E-03	1.09E-03	8.33E-05
1538	577198.7	4193951	6.83E-03	1.10E-03	8.41E-05
1539	577207.8	4193951	6.90E-03	1.11E-03	8.50E-05
1540	577217	4193950	6.98E-03	1.12E-03	8.59E-05
1541	577226.1	4193949	7.05E-03	1.14E-03	8.67E-05
1542	577235.2	4193948	7.11E-03	1.15E-03	8.76E-05
1543	577244.4	4193947	7.18E-03	1.16E-03	8.83E-05
1544	577253.5	4193947	7.23E-03	1.17E-03	8.90E-05
1545	577262.6	4193946	7.27E-03	1.17E-03	8.95E-05
1546	577271.8	4193945	7.30E-03	1.18E-03	8.99E-05
1547	577280.9	4193944	7.32E-03	1.18E-03	9.01E-05
1548	577208.3	4194260	1.05E-01	1.70E-02	1.30E-03
1549	577200.5	4194250	9.42E-02	1.52E-02	1.16E-03
1550	577190.8	4194247	7.85E-02	1.27E-02	9.67E-04
1551	577183.5	4194239	7.17E-02	1.16E-02	8.83E-04
1552	577179.1	4194253	6.09E-02	9.83E-03	7.50E-04
1553	577174.2	4194236	6.18E-02	9.97E-03	7.61E-04

1554	577169.3	4194251	5.23E-02	8.43E-03	6.44E-04
1555	577165	4194233	5.32E-02	8.57E-03	6.54E-04
1556	577159.6	4194249	4.46E-02	7.18E-03	5.48E-04
1557	577154.7	4194232	4.50E-02	7.26E-03	5.54E-04
1558	577149.9	4194247	3.79E-02	6.11E-03	4.66E-04
1559	577145.4	4194228	3.91E-02	6.30E-03	4.81E-04
1560	577151.9	4194213	4.34E-02	7.01E-03	5.35E-04
1561	577140.1	4194244	3.25E-02	5.23E-03	3.99E-04
1562	577135.3	4194227	3.35E-02	5.41E-03	4.13E-04
1563	577141.1	4194214	3.71E-02	5.99E-03	4.57E-04
1564	577130.4	4194242	2.80E-02	4.51E-03	3.45E-04
1565	577125.8	4194224	2.91E-02	4.68E-03	3.58E-04
1566	577132.2	4194209	3.26E-02	5.26E-03	4.01E-04
1567	577120.6	4194240	2.43E-02	3.91E-03	2.99E-04
1568	577116.4	4194221	2.53E-02	4.08E-03	3.11E-04
1569	577123.3	4194205	2.87E-02	4.62E-03	3.53E-04
1570	577110.9	4194238	2.11E-02	3.41E-03	2.60E-04
1571	577106.3	4194220	2.19E-02	3.53E-03	2.69E-04
1572	577112.6	4194205	2.47E-02	3.99E-03	3.04E-04
1573	577101.2	4194235	1.85E-02	2.98E-03	2.28E-04
1574	577096.8	4194217	1.93E-02	3.12E-03	2.38E-04
1575	577103.6	4194201	2.20E-02	3.55E-03	2.71E-04
1576	577110.3	4194186	2.37E-02	3.82E-03	2.92E-04
1577	577091.4	4194233	1.64E-02	2.64E-03	2.02E-04
1578	577086.8	4194215	1.70E-02	2.74E-03	2.09E-04
1579	577093	4194201	1.92E-02	3.10E-03	2.36E-04
1580	577099.2	4194187	2.08E-02	3.35E-03	2.56E-04
1581	577081.7	4194231	1.45E-02	2.35E-03	1.79E-04
1582	577077.3	4194212	1.52E-02	2.45E-03	1.87E-04
1583	577083.9	4194197	1.72E-02	2.78E-03	2.12E-04
1584	577090.5	4194182	1.87E-02	3.02E-03	2.30E-04
1585	577072	4194228	1.30E-02	2.09E-03	1.60E-04
1586	577067.3	4194211	1.35E-02	2.17E-03	1.66E-04
1587	577073.4	4194196	1.52E-02	2.45E-03	1.87E-04
1588	577079.6	4194182	1.66E-02	2.67E-03	2.04E-04
1589	577062.2	4194226	1.16E-02	1.86E-03	1.42E-04
1590	577057.7	4194208	1.21E-02	1.95E-03	1.49E-04
1591	577064.2	4194193	1.37E-02	2.21E-03	1.69E-04
1592	577070.8	4194178	1.50E-02	2.42E-03	1.85E-04
1593	577077.3	4194163	1.58E-02	2.54E-03	1.94E-04
1594	577052.5	4194224	1.04E-02	1.67E-03	1.27E-04
1595	577048.2	4194205	1.09E-02	1.75E-03	1.34E-04
1596	577055.1	4194189	1.24E-02	2.00E-03	1.52E-04
1597	577061.9	4194174	1.36E-02	2.20E-03	1.68E-04
1598	577068.8	4194158	1.44E-02	2.32E-03	1.77E-04
1599	577042.7	4194222	9.32E-03	1.50E-03	1.15E-04
1600	577038.2	4194203	9.74E-03	1.57E-03	1.20E-04
1601	577044.7	4194189	1.10E-02	1.78E-03	1.36E-04
1602	577051.1	4194174	1.21E-02	1.96E-03	1.49E-04
1603	577057.5	4194159	1.29E-02	2.09E-03	1.59E-04
1604	577033	4194219	8.40E-03	1.35E-03	1.03E-04
1605	577028.6	4194201	8.85E-03	1.43E-03	1.09E-04

1606	577035.4	4194185	1.01E-02	1.62E-03	1.24E-04
1607	577042.2	4194170	1.11E-02	1.79E-03	1.36E-04
1608	577048.9	4194154	1.19E-02	1.91E-03	1.46E-04
1609	577023.3	4194217	7.60E-03	1.23E-03	9.36E-05
1610	577018.7	4194199	8.02E-03	1.29E-03	9.87E-05
1611	577025.1	4194184	9.08E-03	1.46E-03	1.12E-04
1612	577031.5	4194170	9.99E-03	1.61E-03	1.23E-04
1613	577037.8	4194155	1.07E-02	1.72E-03	1.32E-04
1614	577013.5	4194215	6.91E-03	1.11E-03	8.51E-05
1615	577009.1	4194196	7.35E-03	1.18E-03	9.04E-05
1616	577015.8	4194181	8.35E-03	1.35E-03	1.03E-04
1617	577022.4	4194166	9.21E-03	1.49E-03	1.13E-04
1618	577029.1	4194151	9.86E-03	1.59E-03	1.21E-04
1619	577035.8	4194135	1.03E-02	1.66E-03	1.27E-04
1620	577003.8	4194212	6.32E-03	1.02E-03	7.78E-05
1621	576999.5	4194194	6.76E-03	1.09E-03	8.32E-05
1622	577006.5	4194178	7.70E-03	1.24E-03	9.48E-05
1623	577013.4	4194162	8.51E-03	1.37E-03	1.05E-04
1624	577020.4	4194146	9.11E-03	1.47E-03	1.12E-04
1625	576994.1	4194210	5.79E-03	9.34E-04	7.13E-05
1626	576989.6	4194192	6.19E-03	9.98E-04	7.62E-05
1627	576996.2	4194177	7.01E-03	1.13E-03	8.63E-05
1628	577002.8	4194162	7.73E-03	1.25E-03	9.51E-05
1629	577009.4	4194147	8.27E-03	1.33E-03	1.02E-04
1630	577015.9	4194132	8.69E-03	1.40E-03	1.07E-04
1631	576984.3	4194208	5.33E-03	8.60E-04	6.57E-05
1632	576980	4194189	5.72E-03	9.22E-04	7.04E-05
1633	576986.8	4194174	6.50E-03	1.05E-03	8.00E-05
1634	576993.7	4194158	7.17E-03	1.16E-03	8.83E-05
1635	577000.5	4194142	7.69E-03	1.24E-03	9.47E-05
1636	577007.4	4194127	8.09E-03	1.30E-03	9.96E-05
1637	576974.6	4194206	4.93E-03	7.96E-04	6.07E-05
1638	576970.1	4194187	5.26E-03	8.49E-04	6.48E-05
1639	576976.6	4194172	5.94E-03	9.58E-04	7.31E-05
1640	576983.1	4194158	6.55E-03	1.06E-03	8.07E-05
1641	576989.7	4194143	7.04E-03	1.13E-03	8.66E-05
1642	576996.2	4194128	7.42E-03	1.20E-03	9.13E-05
1643	576964.9	4194203	4.58E-03	7.38E-04	5.63E-05
1644	576960.5	4194185	4.88E-03	7.87E-04	6.01E-05
1645	576967.2	4194169	5.51E-03	8.89E-04	6.79E-05
1646	576974	4194154	6.09E-03	9.83E-04	7.50E-05
1647	576980.8	4194138	6.57E-03	1.06E-03	8.08E-05
1648	576987.5	4194123	6.92E-03	1.12E-03	8.52E-05
1649	576955.1	4194201	4.26E-03	6.86E-04	5.24E-05
1650	576950.6	4194183	4.51E-03	7.27E-04	5.55E-05
1651	576957.1	4194168	5.06E-03	8.16E-04	6.23E-05
1652	576963.5	4194153	5.58E-03	9.00E-04	6.87E-05
1653	576970	4194139	6.03E-03	9.73E-04	7.42E-05
1654	576976.4	4194124	6.37E-03	1.03E-03	7.84E-05
1655	576945.4	4194199	3.95E-03	6.37E-04	4.87E-05
1656	576941	4194180	4.20E-03	6.77E-04	5.17E-05
1657	576947.7	4194165	4.72E-03	7.61E-04	5.81E-05

1658	576954.3	4194150	5.22E-03	8.42E-04	6.43E-05
1659	576961	4194134	5.65E-03	9.12E-04	6.96E-05
1660	576935.6	4194196	3.68E-03	5.93E-04	4.53E-05
1661	576931.4	4194178	3.92E-03	6.32E-04	4.82E-05
1662	576938.3	4194162	4.42E-03	7.13E-04	5.44E-05
1663	576945.2	4194146	4.89E-03	7.89E-04	6.02E-05
1664	576952.1	4194130	5.30E-03	8.55E-04	6.53E-05
1665	576925.9	4194194	3.43E-03	5.52E-04	4.22E-05
1666	576921.5	4194176	3.65E-03	5.88E-04	4.49E-05
1667	576928.1	4194161	4.10E-03	6.61E-04	5.04E-05
1668	576934.7	4194146	4.51E-03	7.27E-04	5.55E-05
1669	576941.3	4194130	4.89E-03	7.88E-04	6.01E-05
1670	576961.2	4194085	5.59E-03	9.02E-04	6.88E-05
1671	576916.2	4194192	3.20E-03	5.16E-04	3.94E-05
1672	577225.4	4194275	1.59E-01	2.57E-02	1.96E-03
1673	577234.3	4194277	2.15E-01	3.47E-02	2.65E-03
1674	577216.9	4194280	1.17E-01	1.89E-02	1.44E-03
1675	577232	4194286	1.93E-01	3.11E-02	2.37E-03
1676	577214.6	4194290	1.02E-01	1.64E-02	1.25E-03
1677	577201	4194273	7.76E-02	1.25E-02	9.55E-04
1678	577229.7	4194296	1.57E-01	2.53E-02	1.93E-03
1679	577212.3	4194299	7.37E-02	1.19E-02	9.08E-04
1680	577199.9	4194290	5.88E-02	9.47E-03	7.23E-04
1681	577192.5	4194278	5.72E-02	9.22E-03	7.04E-04
1682	577190	4194263	6.70E-02	1.08E-02	8.24E-04
1683	577209.9	4194309	4.12E-02	6.64E-03	5.07E-04
1684	577197.6	4194300	4.05E-02	6.53E-03	4.99E-04
1685	577184	4194284	4.14E-02	6.68E-03	5.10E-04
1686	577181.5	4194269	5.24E-02	8.45E-03	6.45E-04
1687	577195.3	4194310	2.51E-02	4.05E-03	3.09E-04
1688	577182.9	4194301	2.44E-02	3.93E-03	3.00E-04
1689	577175.5	4194289	2.93E-02	4.72E-03	3.61E-04
1690	577173	4194274	3.99E-02	6.43E-03	4.91E-04
1691	577166.8	4194293	2.14E-02	3.46E-03	2.64E-04
1692	577163.9	4194275	3.22E-02	5.18E-03	3.96E-04
1693	577158.3	4194298	1.55E-02	2.50E-03	1.91E-04
1694	577155.5	4194281	2.37E-02	3.83E-03	2.92E-04
1695	577152.7	4194264	3.21E-02	5.18E-03	3.95E-04
1696	577147	4194287	1.77E-02	2.85E-03	2.18E-04
1697	577144.3	4194270	2.45E-02	3.96E-03	3.02E-04
1698	577138.6	4194292	1.33E-02	2.14E-03	1.63E-04
1699	577135.8	4194276	1.88E-02	3.03E-03	2.31E-04
1700	577133.1	4194259	2.41E-02	3.88E-03	2.96E-04
1701	577127.4	4194281	1.45E-02	2.34E-03	1.79E-04
1702	577124.7	4194265	1.90E-02	3.07E-03	2.34E-04
1703	577118.9	4194287	1.14E-02	1.83E-03	1.40E-04
1704	577116.3	4194270	1.50E-02	2.43E-03	1.85E-04
1705	577113.6	4194254	1.86E-02	3.01E-03	2.29E-04
1706	577108.4	4194280	1.13E-02	1.82E-03	1.39E-04
1707	577107	4194271	1.30E-02	2.09E-03	1.59E-04
1708	577104.1	4194253	1.63E-02	2.62E-03	2.00E-04
1709	577098.6	4194277	1.04E-02	1.68E-03	1.28E-04

1710	577097.2	4194268	1.18E-02	1.91E-03	1.46E-04
1711	577094.3	4194251	1.45E-02	2.35E-03	1.79E-04
1712	577087.4	4194265	1.09E-02	1.76E-03	1.34E-04
1713	577084.5	4194248	1.30E-02	2.10E-03	1.61E-04
1714	577077.6	4194263	9.99E-03	1.61E-03	1.23E-04
1715	577074.8	4194246	1.17E-02	1.89E-03	1.45E-04
1716	577067.8	4194260	9.10E-03	1.47E-03	1.12E-04
1717	577065	4194243	1.05E-02	1.69E-03	1.29E-04
1718	577059.4	4194266	7.56E-03	1.22E-03	9.31E-05
1719	577056.6	4194249	8.85E-03	1.43E-03	1.09E-04
1720	577050	4194266	6.75E-03	1.09E-03	8.31E-05
1721	577048.6	4194257	7.34E-03	1.18E-03	9.03E-05
1722	577045.7	4194239	8.43E-03	1.36E-03	1.04E-04
1723	577044.2	4194231	8.91E-03	1.44E-03	1.10E-04
1724	577040.2	4194264	6.17E-03	9.94E-04	7.59E-05
1725	577037.3	4194246	7.13E-03	1.15E-03	8.78E-05
1726	577035.9	4194237	7.60E-03	1.22E-03	9.35E-05
1727	577030.4	4194261	5.59E-03	9.01E-04	6.88E-05
1728	577027.6	4194243	6.45E-03	1.04E-03	7.94E-05
1729	577026.1	4194235	6.87E-03	1.11E-03	8.45E-05
1730	577017.8	4194241	5.87E-03	9.46E-04	7.22E-05
1731	577009.5	4194247	5.01E-03	8.08E-04	6.17E-05
1732	577006.6	4194230	5.70E-03	9.19E-04	7.01E-05
1733	576999.7	4194245	4.60E-03	7.42E-04	5.66E-05
1734	576996.9	4194227	5.22E-03	8.42E-04	6.43E-05
1735	576990.2	4194244	4.18E-03	6.75E-04	5.15E-05
1736	576988.7	4194235	4.48E-03	7.23E-04	5.52E-05
1737	576987.3	4194226	4.78E-03	7.71E-04	5.89E-05
1738	576980.4	4194241	3.87E-03	6.24E-04	4.76E-05
1739	576978.9	4194232	4.16E-03	6.70E-04	5.11E-05
1740	576976	4194215	4.69E-03	7.56E-04	5.77E-05
1741	576969.2	4194230	3.87E-03	6.24E-04	4.76E-05
1742	576966.3	4194212	4.35E-03	7.02E-04	5.36E-05
1743	576960.8	4194236	3.37E-03	5.44E-04	4.15E-05
1744	576958	4194219	3.84E-03	6.19E-04	4.72E-05
1745	577171.6	4194539	5.58E-03	8.99E-04	6.87E-05
1746	577180.5	4194541	6.03E-03	9.72E-04	7.42E-05
1747	577153.2	4194542	4.41E-03	7.11E-04	5.43E-05
1748	577146	4194537	4.02E-03	6.48E-04	4.94E-05
1749	576951.1	4194234	3.16E-03	5.09E-04	3.89E-05
1750	576948.2	4194216	3.58E-03	5.77E-04	4.40E-05
1751	577169.3	4194549	5.27E-03	8.50E-04	6.48E-05
1752	577178.2	4194551	5.65E-03	9.11E-04	6.95E-05
1753	577150.9	4194552	4.18E-03	6.75E-04	5.15E-05
1754	577136.7	4194541	3.50E-03	5.64E-04	4.30E-05
1755	577122.4	4194531	2.80E-03	4.51E-04	3.44E-05
1756	576941.3	4194231	2.96E-03	4.77E-04	3.64E-05
1757	576938.5	4194214	3.33E-03	5.38E-04	4.10E-05
1758	577167	4194559	4.97E-03	8.01E-04	6.12E-05
1759	577175.9	4194561	5.28E-03	8.51E-04	6.50E-05
1760	577148.4	4194561	3.93E-03	6.34E-04	4.84E-05
1761	577141	4194556	3.64E-03	5.87E-04	4.48E-05

1762	577126.2	4194545	2.98E-03	4.81E-04	3.67E-05
1763	577118.9	4194540	2.66E-03	4.28E-04	3.27E-05
1764	577104.1	4194529	2.07E-03	3.34E-04	2.55E-05
1765	577096.7	4194524	1.85E-03	2.99E-04	2.28E-05
1766	576931.8	4194230	2.75E-03	4.43E-04	3.38E-05
1767	576930.3	4194221	2.93E-03	4.73E-04	3.61E-05
1768	576928.8	4194212	3.10E-03	5.00E-04	3.82E-05
1769	576927.4	4194203	3.27E-03	5.27E-04	4.02E-05
1770	577155.8	4194566	4.22E-03	6.80E-04	5.19E-05
1771	577164.7	4194569	4.63E-03	7.47E-04	5.70E-05
1772	577173.6	4194571	4.91E-03	7.92E-04	6.05E-05
1773	577146.1	4194571	3.70E-03	5.96E-04	4.55E-05
1774	577138.8	4194566	3.45E-03	5.56E-04	4.24E-05
1775	577131.4	4194560	3.18E-03	5.13E-04	3.91E-05
1776	577116.8	4194550	2.58E-03	4.17E-04	3.18E-05
1777	577102.1	4194539	2.05E-03	3.30E-04	2.52E-05
1778	577094.8	4194534	1.84E-03	2.97E-04	2.27E-05
1779	577080.1	4194523	1.48E-03	2.38E-04	1.82E-05
1780	577065.5	4194513	1.22E-03	1.97E-04	1.51E-05
1781	576920.5	4194219	2.75E-03	4.43E-04	3.38E-05
1782	576919.1	4194210	2.91E-03	4.69E-04	3.58E-05
1783	577162.3	4194578	4.30E-03	6.94E-04	5.30E-05
1784	577171.2	4194580	4.58E-03	7.39E-04	5.64E-05
1785	577190.1	4194292	4.02E-02	6.48E-03	4.95E-04
1786	577165.5	4194262	4.29E-02	6.91E-03	5.28E-04
1787	577212.2	4194272	1.08E-01	1.73E-02	1.32E-03
1788	577161.8	4194221	5.08E-02	8.19E-03	6.26E-04
1789	577191.8	4194546	6.53E-03	1.05E-03	8.04E-05
1790	577201.1	4194548	7.06E-03	1.14E-03	8.69E-05
1791	577210.4	4194550	7.62E-03	1.23E-03	9.37E-05
1792	577219.8	4194553	8.17E-03	1.32E-03	1.01E-04
1793	577229.1	4194555	8.73E-03	1.41E-03	1.07E-04
1794	577238.4	4194557	9.28E-03	1.50E-03	1.14E-04
1795	577247.8	4194559	9.80E-03	1.58E-03	1.21E-04
1796	577189.5	4194556	6.06E-03	9.77E-04	7.45E-05
1797	577198.8	4194558	6.49E-03	1.05E-03	7.99E-05
1798	577208.1	4194560	6.98E-03	1.13E-03	8.59E-05
1799	577217.4	4194562	7.47E-03	1.20E-03	9.20E-05
1800	577226.8	4194565	7.96E-03	1.28E-03	9.80E-05
1801	577236.1	4194567	8.46E-03	1.36E-03	1.04E-04
1802	577245.4	4194569	8.95E-03	1.44E-03	1.10E-04
1803	577187.1	4194565	5.62E-03	9.06E-04	6.92E-05
1804	577196.5	4194568	5.98E-03	9.65E-04	7.37E-05
1805	577205.8	4194570	6.42E-03	1.04E-03	7.91E-05
1806	577215.1	4194572	6.86E-03	1.11E-03	8.44E-05
1807	577224.4	4194574	7.29E-03	1.17E-03	8.97E-05
1808	577233.8	4194577	7.74E-03	1.25E-03	9.53E-05
1809	577243.1	4194579	8.19E-03	1.32E-03	1.01E-04
1810	577184.8	4194575	5.23E-03	8.43E-04	6.43E-05
1811	577194.1	4194577	5.54E-03	8.93E-04	6.82E-05
1812	577203.5	4194580	5.93E-03	9.56E-04	7.30E-05
1813	577212.8	4194582	6.32E-03	1.02E-03	7.78E-05

1814	577222.1	4194584	6.70E-03	1.08E-03	8.25E-05
1815	577231.5	4194586	7.11E-03	1.15E-03	8.75E-05
1816	577240.8	4194589	7.51E-03	1.21E-03	9.24E-05
1817	577182.5	4194585	4.87E-03	7.86E-04	6.00E-05
1818	577191.8	4194587	5.15E-03	8.31E-04	6.34E-05
1819	577201.1	4194589	5.49E-03	8.85E-04	6.76E-05
1820	577210.5	4194592	5.84E-03	9.41E-04	7.18E-05
1821	577219.8	4194594	6.17E-03	9.94E-04	7.59E-05
1822	577229.1	4194596	6.51E-03	1.05E-03	8.02E-05
1823	577238.5	4194598	6.88E-03	1.11E-03	8.47E-05
1824	577144.7	4194583	3.50E-03	5.64E-04	4.31E-05
1825	577137.2	4194577	3.29E-03	5.30E-04	4.04E-05
1826	577129.6	4194572	3.04E-03	4.90E-04	3.74E-05
1827	577122.1	4194566	2.77E-03	4.46E-04	3.41E-05
1828	577114.6	4194561	2.51E-03	4.04E-04	3.08E-05
1829	577107.1	4194555	2.25E-03	3.63E-04	2.77E-05
1830	577099.6	4194550	2.02E-03	3.25E-04	2.48E-05
1831	577092.1	4194545	1.81E-03	2.92E-04	2.23E-05
1832	577084.6	4194539	1.62E-03	2.62E-04	2.00E-05
1833	577077.1	4194534	1.45E-03	2.34E-04	1.79E-05
1834	577069.6	4194528	1.31E-03	2.11E-04	1.61E-05
1835	577062.1	4194523	1.19E-03	1.92E-04	1.47E-05
1836	577054.6	4194518	1.10E-03	1.77E-04	1.35E-05
1837	577047.1	4194512	1.02E-03	1.65E-04	1.26E-05
1838	577039.6	4194507	9.60E-04	1.55E-04	1.18E-05
1839	577032	4194501	9.11E-04	1.47E-04	1.12E-05
1840	577152.2	4194588	3.71E-03	5.97E-04	4.56E-05
1841	577161.5	4194590	4.04E-03	6.51E-04	4.97E-05
1842	577170.8	4194592	4.32E-03	6.96E-04	5.31E-05
1843	577180.2	4194595	4.57E-03	7.37E-04	5.62E-05
1844	577189.5	4194597	4.82E-03	7.77E-04	5.93E-05
1845	577198.8	4194599	5.10E-03	8.22E-04	6.27E-05
1846	577208.1	4194601	5.40E-03	8.71E-04	6.65E-05
1847	577217.5	4194604	5.69E-03	9.18E-04	7.01E-05
1848	577226.8	4194606	5.99E-03	9.66E-04	7.37E-05
1849	577236.1	4194608	6.33E-03	1.02E-03	7.79E-05
1850	577142.1	4194592	3.30E-03	5.33E-04	4.07E-05
1851	577134.3	4194586	3.12E-03	5.03E-04	3.84E-05
1852	577126.5	4194581	2.87E-03	4.63E-04	3.53E-05
1853	577118.7	4194575	2.62E-03	4.22E-04	3.22E-05
1854	577111	4194570	2.38E-03	3.83E-04	2.92E-05
1855	577103.2	4194564	2.14E-03	3.45E-04	2.63E-05
1856	577095.4	4194558	1.93E-03	3.11E-04	2.38E-05
1857	577087.6	4194553	1.73E-03	2.79E-04	2.13E-05
1858	577072.1	4194542	1.39E-03	2.24E-04	1.71E-05
1859	577064.3	4194536	1.25E-03	2.02E-04	1.54E-05
1860	577056.5	4194530	1.14E-03	1.83E-04	1.40E-05
1861	577048.8	4194525	1.04E-03	1.67E-04	1.28E-05
1862	577041	4194519	9.61E-04	1.55E-04	1.18E-05
1863	577033.2	4194514	8.98E-04	1.45E-04	1.11E-05
1864	577025.4	4194508	8.50E-04	1.37E-04	1.05E-05
1865	577017.7	4194502	8.18E-04	1.32E-04	1.01E-05

1866	577009.9	4194497	8.00E-04	1.29E-04	9.85E-06
1867	577002.1	4194491	7.87E-04	1.27E-04	9.68E-06
1868	577149.8	4194598	3.50E-03	5.64E-04	4.31E-05
1869	577159.2	4194600	3.80E-03	6.13E-04	4.68E-05
1870	577168.5	4194602	4.08E-03	6.57E-04	5.02E-05
1871	577177.8	4194604	4.30E-03	6.94E-04	5.29E-05
1872	577187.2	4194607	4.52E-03	7.29E-04	5.56E-05
1873	577196.5	4194609	4.75E-03	7.65E-04	5.84E-05
1874	577205.8	4194611	5.02E-03	8.09E-04	6.18E-05
1875	577215.1	4194613	5.27E-03	8.50E-04	6.49E-05
1876	577224.5	4194616	5.52E-03	8.91E-04	6.80E-05
1877	577233.8	4194618	5.84E-03	9.41E-04	7.18E-05
1878	577139.8	4194602	3.13E-03	5.05E-04	3.86E-05
1879	577132.1	4194596	2.95E-03	4.76E-04	3.64E-05
1880	577124.4	4194591	2.74E-03	4.42E-04	3.37E-05
1881	577116.7	4194585	2.53E-03	4.07E-04	3.11E-05
1882	577109	4194580	2.31E-03	3.72E-04	2.84E-05
1883	577101.3	4194574	2.10E-03	3.38E-04	2.58E-05
1884	577093.6	4194569	1.91E-03	3.08E-04	2.35E-05
1885	577085.8	4194563	1.72E-03	2.78E-04	2.12E-05
1886	577078.1	4194557	1.54E-03	2.49E-04	1.90E-05
1887	577070.4	4194552	1.39E-03	2.24E-04	1.71E-05
1888	577062.7	4194546	1.26E-03	2.03E-04	1.55E-05
1889	577055	4194541	1.14E-03	1.84E-04	1.40E-05
1890	577047.3	4194535	1.04E-03	1.67E-04	1.28E-05
1891	577039.6	4194530	9.51E-04	1.53E-04	1.17E-05
1892	577031.9	4194524	8.78E-04	1.42E-04	1.08E-05
1893	577024.2	4194519	8.24E-04	1.33E-04	1.01E-05
1894	577016.5	4194513	7.83E-04	1.26E-04	9.64E-06
1895	577008.8	4194507	7.58E-04	1.22E-04	9.34E-06
1896	577001.1	4194502	7.45E-04	1.20E-04	9.17E-06
1897	576993.3	4194496	7.41E-04	1.19E-04	9.12E-06
1898	576985.6	4194491	7.42E-04	1.20E-04	9.13E-06
1899	576977.9	4194485	7.56E-04	1.22E-04	9.30E-06
1900	576970.2	4194480	7.79E-04	1.26E-04	9.59E-06
1901	577147.5	4194607	3.31E-03	5.34E-04	4.07E-05
1902	577156.8	4194610	3.59E-03	5.79E-04	4.42E-05
1903	577166.2	4194612	3.86E-03	6.23E-04	4.76E-05
1904	577175.5	4194614	4.06E-03	6.55E-04	5.00E-05
1905	577184.8	4194616	4.25E-03	6.86E-04	5.23E-05
1906	577194.2	4194619	4.43E-03	7.15E-04	5.46E-05
1907	577203.5	4194621	4.67E-03	7.54E-04	5.75E-05
1908	577212.8	4194623	4.91E-03	7.91E-04	6.04E-05
1909	577222.2	4194625	5.14E-03	8.28E-04	6.32E-05
1910	577231.5	4194627	5.42E-03	8.74E-04	6.67E-05
1911	577137.5	4194612	2.97E-03	4.80E-04	3.66E-05
1912	577129.9	4194606	2.80E-03	4.52E-04	3.45E-05
1913	577122.3	4194601	2.61E-03	4.21E-04	3.22E-05
1914	577114.6	4194595	2.43E-03	3.91E-04	2.99E-05
1915	577107	4194590	2.24E-03	3.61E-04	2.75E-05
1916	577099.3	4194584	2.06E-03	3.32E-04	2.53E-05
1917	577091.7	4194579	1.89E-03	3.04E-04	2.32E-05

1918	577084	4194573	1.71E-03	2.76E-04	2.11E-05
1919	577076.4	4194568	1.55E-03	2.49E-04	1.90E-05
1920	577068.7	4194562	1.39E-03	2.25E-04	1.72E-05
1921	577061.1	4194557	1.26E-03	2.03E-04	1.55E-05
1922	577053.4	4194551	1.14E-03	1.84E-04	1.41E-05
1923	577045.8	4194545	1.04E-03	1.68E-04	1.28E-05
1924	577038.1	4194540	9.53E-04	1.54E-04	1.17E-05
1925	577030.5	4194534	8.76E-04	1.41E-04	1.08E-05
1926	577022.8	4194529	8.09E-04	1.30E-04	9.96E-06
1927	577015.2	4194523	7.57E-04	1.22E-04	9.32E-06
1928	577007.6	4194518	7.28E-04	1.17E-04	8.97E-06
1929	576999.9	4194512	7.09E-04	1.14E-04	8.73E-06
1930	576992.3	4194507	6.98E-04	1.13E-04	8.59E-06
1931	576984.6	4194501	6.95E-04	1.12E-04	8.56E-06
1932	576977	4194496	7.02E-04	1.13E-04	8.64E-06
1933	576969.3	4194490	7.16E-04	1.16E-04	8.82E-06
1934	576961.7	4194485	7.39E-04	1.19E-04	9.09E-06
1935	577145.2	4194617	3.13E-03	5.05E-04	3.86E-05
1936	577154.5	4194619	3.39E-03	5.46E-04	4.17E-05
1937	577163.9	4194622	3.65E-03	5.89E-04	4.49E-05
1938	577173.2	4194624	3.82E-03	6.16E-04	4.71E-05
1939	577182.5	4194626	3.99E-03	6.44E-04	4.91E-05
1940	577191.8	4194628	4.15E-03	6.70E-04	5.11E-05
1941	577201.2	4194631	4.36E-03	7.03E-04	5.37E-05
1942	577210.5	4194633	4.58E-03	7.38E-04	5.64E-05
1943	577219.8	4194635	4.79E-03	7.73E-04	5.90E-05
1944	577229.2	4194637	5.04E-03	8.12E-04	6.20E-05
1945	577135.3	4194621	2.82E-03	4.55E-04	3.47E-05
1946	577127.7	4194616	2.66E-03	4.30E-04	3.28E-05
1947	577120.1	4194610	2.50E-03	4.03E-04	3.07E-05
1948	577112.5	4194605	2.33E-03	3.76E-04	2.87E-05
1949	577104.9	4194600	2.16E-03	3.49E-04	2.66E-05
1950	577097.3	4194594	2.01E-03	3.25E-04	2.48E-05
1951	577089.7	4194589	1.86E-03	3.00E-04	2.29E-05
1952	577082.1	4194583	1.70E-03	2.75E-04	2.10E-05
1953	577074.6	4194578	1.55E-03	2.49E-04	1.90E-05
1954	577067	4194572	1.41E-03	2.27E-04	1.73E-05
1955	577059.4	4194567	1.28E-03	2.06E-04	1.57E-05
1956	577051.8	4194561	1.15E-03	1.86E-04	1.42E-05
1957	577044.2	4194556	1.04E-03	1.68E-04	1.28E-05
1958	577036.6	4194550	9.56E-04	1.54E-04	1.18E-05
1959	577029	4194545	8.80E-04	1.42E-04	1.08E-05
1960	577021.4	4194539	8.13E-04	1.31E-04	1.00E-05
1961	577013.8	4194534	7.53E-04	1.21E-04	9.27E-06
1962	577006.3	4194528	7.11E-04	1.15E-04	8.75E-06
1963	576998.7	4194523	6.83E-04	1.10E-04	8.41E-06
1964	576991.1	4194517	6.67E-04	1.08E-04	8.21E-06
1965	576983.5	4194512	6.58E-04	1.06E-04	8.10E-06
1966	576975.9	4194507	6.58E-04	1.06E-04	8.09E-06
1967	576968.3	4194501	6.65E-04	1.07E-04	8.19E-06
1968	576960.7	4194496	6.80E-04	1.10E-04	8.37E-06
1969	576953.1	4194490	7.01E-04	1.13E-04	8.63E-06

1970	576944	4194475	7.71E-04	1.24E-04	9.48E-06
1971	577142.9	4194627	2.96E-03	4.77E-04	3.64E-05
1972	577152.2	4194629	3.18E-03	5.13E-04	3.92E-05
1973	577161.5	4194631	3.42E-03	5.52E-04	4.21E-05
1974	577170.9	4194634	3.60E-03	5.80E-04	4.43E-05
1975	577180.2	4194636	3.75E-03	6.05E-04	4.62E-05
1976	577189.5	4194638	3.90E-03	6.29E-04	4.80E-05
1977	577198.8	4194640	4.08E-03	6.58E-04	5.02E-05
1978	577208.2	4194642	4.28E-03	6.90E-04	5.27E-05
1979	577217.5	4194645	4.48E-03	7.22E-04	5.51E-05
1980	577226.8	4194647	4.69E-03	7.57E-04	5.78E-05
1981	577268.8	4194557	1.16E-02	1.88E-03	1.43E-04
1982	577259.8	4194558	1.08E-02	1.75E-03	1.33E-04
1983	577289.9	4194565	1.25E-02	2.01E-03	1.54E-04
1984	577278	4194566	1.15E-02	1.86E-03	1.42E-04
1985	577266.2	4194567	1.06E-02	1.71E-03	1.30E-04
1986	577308.5	4194572	1.29E-02	2.08E-03	1.59E-04
1987	577296.6	4194573	1.21E-02	1.95E-03	1.49E-04
1988	577284.7	4194575	1.12E-02	1.80E-03	1.38E-04
1989	577272.9	4194576	1.03E-02	1.67E-03	1.27E-04
1990	577261	4194577	9.44E-03	1.52E-03	1.16E-04
1991	577333.3	4194579	1.29E-02	2.09E-03	1.59E-04
1992	577321.4	4194580	1.26E-02	2.04E-03	1.56E-04
1993	577309.4	4194582	1.21E-02	1.95E-03	1.49E-04
1994	577297.5	4194583	1.14E-02	1.83E-03	1.40E-04
1995	577285.6	4194584	1.05E-02	1.69E-03	1.29E-04
1996	577273.6	4194585	9.68E-03	1.56E-03	1.19E-04
1997	577261.7	4194586	8.86E-03	1.43E-03	1.09E-04
1998	577252.7	4194587	8.24E-03	1.33E-03	1.01E-04
1999	577358.2	4194586	1.20E-02	1.93E-03	1.47E-04
2000	577349.3	4194587	1.22E-02	1.96E-03	1.50E-04
2001	577340.3	4194588	1.22E-02	1.98E-03	1.51E-04
2002	577328.3	4194589	1.21E-02	1.94E-03	1.48E-04
2003	577319.3	4194590	1.17E-02	1.89E-03	1.45E-04
2004	577310.3	4194591	1.13E-02	1.83E-03	1.39E-04
2005	577301.3	4194592	1.08E-02	1.75E-03	1.33E-04
2006	577289.4	4194593	1.01E-02	1.62E-03	1.24E-04
2007	577280.4	4194594	9.46E-03	1.52E-03	1.16E-04
2008	577271.4	4194595	8.89E-03	1.43E-03	1.09E-04
2009	577259.4	4194596	8.11E-03	1.31E-03	9.98E-05
2010	577250.4	4194597	7.55E-03	1.22E-03	9.30E-05
2011	577377.3	4194594	1.06E-02	1.71E-03	1.30E-04
2012	577368.3	4194595	1.10E-02	1.77E-03	1.35E-04
2013	577359.3	4194596	1.13E-02	1.82E-03	1.39E-04
2014	577350.3	4194597	1.15E-02	1.85E-03	1.41E-04
2015	577341.3	4194597	1.15E-02	1.86E-03	1.42E-04
2016	577332.2	4194598	1.14E-02	1.84E-03	1.40E-04
2017	577323.2	4194599	1.11E-02	1.80E-03	1.37E-04
2018	577314.2	4194600	1.08E-02	1.74E-03	1.33E-04
2019	577305.2	4194601	1.03E-02	1.67E-03	1.27E-04
2020	577296.2	4194602	9.82E-03	1.58E-03	1.21E-04
2021	577287.2	4194603	9.27E-03	1.49E-03	1.14E-04

2022	577278.2	4194604	8.72E-03	1.41E-03	1.07E-04
2023	577269.2	4194605	8.18E-03	1.32E-03	1.01E-04
2024	577260.2	4194606	7.62E-03	1.23E-03	9.38E-05
2025	577251.2	4194607	7.10E-03	1.14E-03	8.74E-05
2026	577399.5	4194601	8.91E-03	1.44E-03	1.10E-04
2027	577390.4	4194602	9.42E-03	1.52E-03	1.16E-04
2028	577381.4	4194603	9.91E-03	1.60E-03	1.22E-04
2029	577372.4	4194604	1.03E-02	1.66E-03	1.27E-04
2030	577363.3	4194605	1.06E-02	1.71E-03	1.31E-04
2031	577354.3	4194606	1.08E-02	1.74E-03	1.33E-04
2032	577345.3	4194607	1.09E-02	1.76E-03	1.34E-04
2033	577336.2	4194607	1.08E-02	1.74E-03	1.33E-04
2034	577327.2	4194608	1.06E-02	1.70E-03	1.30E-04
2035	577318.1	4194609	1.02E-02	1.65E-03	1.26E-04
2036	577309.1	4194610	9.86E-03	1.59E-03	1.21E-04
2037	577300.1	4194611	9.41E-03	1.52E-03	1.16E-04
2038	577291	4194612	8.91E-03	1.44E-03	1.10E-04
2039	577282	4194613	8.39E-03	1.35E-03	1.03E-04
2040	577273	4194614	7.88E-03	1.27E-03	9.69E-05
2041	577263.9	4194615	7.36E-03	1.19E-03	9.05E-05
2042	577254.9	4194616	6.84E-03	1.10E-03	8.42E-05
2043	577245.9	4194617	6.40E-03	1.03E-03	7.87E-05
2044	577412.9	4194609	7.74E-03	1.25E-03	9.53E-05
2045	577401	4194610	8.45E-03	1.36E-03	1.04E-04
2046	577389.1	4194612	9.08E-03	1.46E-03	1.12E-04
2047	577377.2	4194613	9.64E-03	1.55E-03	1.19E-04
2048	577365.3	4194614	1.00E-02	1.62E-03	1.23E-04
2049	577353.4	4194615	1.02E-02	1.65E-03	1.26E-04
2050	577341.5	4194616	1.03E-02	1.65E-03	1.26E-04
2051	577329.6	4194618	1.00E-02	1.61E-03	1.23E-04
2052	577317.7	4194619	9.61E-03	1.55E-03	1.18E-04
2053	577305.8	4194620	9.11E-03	1.47E-03	1.12E-04
2054	577293.9	4194621	8.53E-03	1.38E-03	1.05E-04
2055	577282	4194622	7.90E-03	1.27E-03	9.73E-05
2056	577270.2	4194624	7.27E-03	1.17E-03	8.95E-05
2057	577258.3	4194625	6.64E-03	1.07E-03	8.17E-05
2058	577246.4	4194626	6.07E-03	9.78E-04	7.47E-05
2059	577429	4194617	6.54E-03	1.05E-03	8.05E-05
2060	577417.1	4194618	7.20E-03	1.16E-03	8.86E-05
2061	577405.2	4194619	7.86E-03	1.27E-03	9.68E-05
2062	577396.2	4194620	8.33E-03	1.34E-03	1.02E-04
2063	577384.3	4194622	8.89E-03	1.43E-03	1.09E-04
2064	577372.3	4194623	9.37E-03	1.51E-03	1.15E-04
2065	577363.4	4194624	9.58E-03	1.54E-03	1.18E-04
2066	577351.5	4194625	9.73E-03	1.57E-03	1.20E-04
2067	577339.5	4194626	9.69E-03	1.56E-03	1.19E-04
2068	577327.6	4194627	9.40E-03	1.52E-03	1.16E-04
2069	577318.7	4194628	9.10E-03	1.47E-03	1.12E-04
2070	577306.7	4194629	8.63E-03	1.39E-03	1.06E-04
2071	577294.8	4194631	8.09E-03	1.30E-03	9.96E-05
2072	577285.8	4194631	7.65E-03	1.23E-03	9.42E-05
2073	577273.9	4194633	7.06E-03	1.14E-03	8.69E-05

2074	577262	4194634	6.46E-03	1.04E-03	7.96E-05
2075	577253	4194635	6.03E-03	9.72E-04	7.42E-05
2076	577241.1	4194636	5.52E-03	8.91E-04	6.80E-05
2077	577440.5	4194622	5.84E-03	9.41E-04	7.18E-05
2078	577430.2	4194626	6.20E-03	1.00E-03	7.63E-05
2079	577421.3	4194627	6.66E-03	1.07E-03	8.20E-05
2080	577409.3	4194629	7.29E-03	1.17E-03	8.97E-05
2081	577400.3	4194629	7.74E-03	1.25E-03	9.53E-05
2082	577388.4	4194631	8.30E-03	1.34E-03	1.02E-04
2083	577379.4	4194632	8.68E-03	1.40E-03	1.07E-04
2084	577367.4	4194633	9.04E-03	1.46E-03	1.11E-04
2085	577358.5	4194634	9.18E-03	1.48E-03	1.13E-04
2086	577346.5	4194635	9.26E-03	1.49E-03	1.14E-04
2087	577337.5	4194636	9.15E-03	1.47E-03	1.13E-04
2088	577325.6	4194637	8.83E-03	1.42E-03	1.09E-04
2089	577316.6	4194638	8.51E-03	1.37E-03	1.05E-04
2090	577304.6	4194639	8.06E-03	1.30E-03	9.92E-05
2091	577295.6	4194640	7.68E-03	1.24E-03	9.45E-05
2092	577283.7	4194641	7.14E-03	1.15E-03	8.79E-05
2093	577274.7	4194642	6.72E-03	1.08E-03	8.27E-05
2094	577265.7	4194643	6.30E-03	1.02E-03	7.75E-05
2095	577253.8	4194644	5.75E-03	9.27E-04	7.07E-05
2096	577244.8	4194645	5.38E-03	8.68E-04	6.63E-05

			T2		140			T2L3				T4			
			136	577296.21	4194240.41										
							2.03E-06				3.23E-07				2.11E-08
	UTM X	UTM Y	Yr 1	Yr 2	Yr 3	Yr 4	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total
1	577330.1	4194345	9.78E-08	3.29E-07	2.57E-07	0.00E+00	6.84E-07	1.52E-08	5.31E-08	4.06E-08	1.09E-07	6.69E-10	4.05E-09	2.38E-09	7.10E-09
2	577339.3	4194349	7.26E-08	2.44E-07	1.91E-07	0.00E+00	5.08E-07	1.13E-08	3.94E-08	3.01E-08	8.08E-08	4.97E-10	3.01E-09	1.77E-09	5.27E-09
3	577348.5	4194353	5.55E-08	1.87E-07	1.46E-07	0.00E+00	3.88E-07	8.65E-09	3.01E-08	2.30E-08	6.18E-08	3.80E-10	2.30E-09	1.35E-09	4.03E-09
4	577334.4	4194332	1.19E-07	3.99E-07	3.11E-07	0.00E+00	8.29E-07	1.85E-08	6.44E-08	4.92E-08	1.32E-07	8.11E-10	4.91E-09	2.88E-09	8.61E-09
5	577343.9	4194335	8.71E-08	2.93E-07	2.29E-07	0.00E+00	6.09E-07	1.36E-08	4.73E-08	3.61E-08	9.70E-08	5.96E-10	3.61E-09	2.12E-09	6.32E-09
6	577353.5	4194338	6.55E-08	2.20E-07	1.72E-07	0.00E+00	4.58E-07	1.02E-08	3.55E-08	2.71E-08	7.29E-08	4.48E-10	2.71E-09	1.59E-09	4.75E-09
7	577363	4194341	5.11E-08	1.72E-07	1.34E-07	0.00E+00	3.57E-07	7.96E-09	2.77E-08	2.12E-08	5.68E-08	3.49E-10	2.12E-09	1.24E-09	3.71E-09
8	577372.5	4194345	4.10E-08	1.38E-07	1.08E-07	0.00E+00	2.87E-07	6.39E-09	2.22E-08	1.70E-08	4.56E-08	2.80E-10	1.70E-09	9.97E-10	2.98E-09
9	577380	4194354	3.24E-08	1.09E-07	8.51E-08	0.00E+00	2.27E-07	5.05E-09	1.76E-08	1.34E-08	3.61E-08	2.22E-10	1.34E-09	7.88E-10	2.35E-09
10	577389.5	4194357	2.80E-08	9.42E-08	7.35E-08	0.00E+00	1.96E-07	4.36E-09	1.52E-08	1.16E-08	3.11E-08	1.91E-10	1.16E-09	6.81E-10	2.03E-09
11	577346.4	4194326	9.93E-08	3.34E-07	2.61E-07	0.00E+00	6.94E-07	1.55E-08	5.39E-08	4.12E-08	1.11E-07	6.79E-10	4.11E-09	2.42E-09	7.21E-09
12	577356	4194329	7.42E-08	2.50E-07	1.95E-07	0.00E+00	5.19E-07	1.16E-08	4.03E-08	3.08E-08	8.26E-08	5.08E-10	3.08E-09	1.81E-09	5.39E-09
13	577365.7	4194332	5.77E-08	1.94E-07	1.52E-07	0.00E+00	4.04E-07	8.99E-09	3.13E-08	2.39E-08	6.43E-08	3.95E-10	2.39E-09	1.40E-09	4.19E-09
14	577375.4	4194334	4.63E-08	1.56E-07	1.21E-07	0.00E+00	3.23E-07	7.21E-09	2.51E-08	1.92E-08	5.15E-08	3.16E-10	1.92E-09	1.13E-09	3.36E-09
15	577383.1	4194344	3.58E-08	1.20E-07	9.39E-08	0.00E+00	2.50E-07	5.57E-09	1.94E-08	1.48E-08	3.98E-08	2.45E-10	1.48E-09	8.70E-10	2.60E-09
16	577392.7	4194347	3.06E-08	1.03E-07	8.04E-08	0.00E+00	2.14E-07	4.77E-09	1.66E-08	1.27E-08	3.41E-08	2.09E-10	1.27E-09	7.45E-10	2.22E-09
17	577402.4	4194349	2.66E-08	8.94E-08	6.97E-08	0.00E+00	1.86E-07	4.14E-09	1.44E-08	1.10E-08	2.96E-08	1.82E-10	1.10E-09	6.46E-10	1.93E-09
18	577412.1	4194352	2.38E-08	8.02E-08	6.26E-08	0.00E+00	1.67E-07	3.71E-09	1.29E-08	9.88E-09	2.65E-08	1.63E-10	9.87E-10	5.80E-10	1.73E-09
19	577421.7	4194354	2.15E-08	7.24E-08	5.65E-08	0.00E+00	1.50E-07	3.35E-09	1.17E-08	8.91E-09	2.39E-08	1.47E-10	8.91E-10	5.23E-10	1.56E-09
20	577431.4	4194357	1.94E-08	6.54E-08	5.10E-08	0.00E+00	1.36E-07	3.03E-09	1.05E-08	8.06E-09	2.16E-08	1.33E-10	8.05E-10	4.73E-10	1.41E-09
21	577441	4194360	1.76E-08	5.92E-08	4.62E-08	0.00E+00	1.23E-07	2.74E-09	9.55E-09	7.30E-09	1.96E-08	1.20E-10	7.29E-10	4.28E-10	1.28E-09
22	577450.7	4194362	1.60E-08	5.37E-08	4.19E-08	0.00E+00	1.12E-07	2.49E-09	8.66E-09	6.62E-09	1.78E-08	1.09E-10	6.61E-10	3.88E-10	1.16E-09
23	577462.2	4194358	1.50E-08	5.05E-08	3.94E-08	0.00E+00	1.05E-07	2.34E-09	8.14E-09	6.22E-09	1.67E-08	1.03E-10	6.21E-10	3.65E-10	1.09E-09
24	577471.9	4194360	1.36E-08	4.57E-08	3.56E-08	0.00E+00	9.48E-08	2.11E-09	7.36E-09	5.62E-09	1.51E-08	9.28E-11	5.62E-10	3.30E-10	9.85E-10
25	577481.6	4194363	1.23E-08	4.14E-08	3.23E-08	0.00E+00	8.60E-08	1.92E-09	6.67E-09	5.10E-09	1.37E-08	8.41E-11	5.09E-10	2.99E-10	8.93E-10
26	577491.2	4194366	1.12E-08	3.77E-08	2.94E-08	0.00E+00	7.83E-08	1.74E-09	6.08E-09	4.64E-09	1.25E-08	7.66E-11	4.64E-10	2.72E-10	8.13E-10
27	577500.9	4194368	1.02E-08	3.44E-08	2.69E-08	0.00E+00	7.15E-08	1.59E-09	5.55E-09	4.24E-09	1.14E-08	7.00E-11	4.24E-10	2.49E-10	7.43E-10
28	577510.5	4194371	9.39E-09	3.16E-08	2.46E-08	0.00E+00	6.56E-08	1.46E-09	5.09E-09	3.89E-09	1.04E-08	6.42E-11	3.89E-10	2.28E-10	6.81E-10
29	577520.2	4194373	8.62E-09	2.90E-08	2.26E-08	0.00E+00	6.03E-08	1.34E-09	4.68E-09	3.57E-09	9.59E-09	5.89E-11	3.57E-10	2.10E-10	6.26E-10
30	577337.1	4194322	1.39E-07	4.69E-07	3.66E-07	0.00E+00	9.73E-07	2.17E-08	7.56E-08	5.77E-08	1.55E-07	9.52E-10	5.77E-09	3.39E-09	1.01E-08
31	577348.4	4194317	1.12E-07	3.78E-07	2.95E-07	0.00E+00	7.86E-07	1.75E-08	6.10E-08	4.66E-08	1.25E-07	7.69E-10	4.66E-09	2.73E-09	8.16E-09
32	577358.2	4194319	8.41E-08	2.83E-07	2.21E-07	0.00E+00	5.88E-07	1.31E-08	4.56E-08	3.49E-08	9.36E-08	5.75E-10	3.48E-09	2.05E-09	6.10E-09
33	577368	4194321	6.51E-08	2.19E-07	1.71E-07	0.00E+00	4.55E-07	1.01E-08	3.53E-08	2.70E-08	7.25E-08	4.45E-10	2.70E-09	1.58E-09	4.73E-09
34	577377.8	4194323	5.20E-08	1.75E-07	1.36E-07	0.00E+00	3.63E-07	8.10E-09	2.82E-08	2.15E-08	5.78E-08	3.55E-10	2.15E-09	1.26E-09	3.77E-09
35	577386.1	4194332	4.01E-08	1.35E-07	1.05E-07	0.00E+00	2.80E-07	6.24E-09	2.17E-08	1.66E-08	4.46E-08	2.74E-10	1.66E-09	9.75E-10	2.91E-09
36	577395.9	4194335	3.39E-08	1.14E-07	8.89E-08	0.00E+00	2.37E-07	5.27E-09	1.84E-08	1.40E-08	3.77E-08	2.32E-10	1.40E-09	8.23E-10	2.46E-09
37	577405.6	4194337	2.92E-08	9.84E-08	7.68E-08	0.00E+00	2.04E-07	4.56E-09	1.59E-08	1.21E-08	3.25E-08	2.00E-10	1.21E-09	7.11E-10	2.12E-09
38	577415.4	4194339	2.61E-08	8.80E-08	6.86E-08	0.00E+00	1.83E-07	4.07E-09	1.42E-08	1.08E-08	2.91E-08	1.79E-10	1.08E-09	6.36E-10	1.90E-09
39	577425.2	4194341	2.34E-08	7.88E-08	6.15E-08	0.00E+00	1.64E-07	3.65E-09	1.27E-08	9.71E-09	2.61E-08	1.60E-10	9.70E-10	5.70E-10	1.70E-09
40	577434.1	4194346	2.07E-08	6.95E-08	5.42E-08	0.00E+00	1.44E-07	3.22E-09	1.12E-08	8.56E-09	2.30E-08	1.41E-10	8.55E-10	5.02E-10	1.50E-09
41	577436.5	4194336	2.18E-08	7.34E-08	5.73E-08	0.00E+00	1.52E-07	3.40E-09	1.18E-08	9.04E-09	2.43E-08	1.49E-10	9.03E-10	5.30E-10	1.58E-09
42	577443.9	4194349	1.86E-08	6.27E-08	4.89E-08	0.00E+00	1.30E-07	2.90E-09	1.01E-08	7.72E-09	2.07E-08	1.27E-10	7.71E-10	4.53E-10	1.35E-09
43	577446.3	4194338	1.96E-08	6.60E-08	5.15E-08	0.00E+00	1.37E-07	3.06E-09	1.06E-08	8.14E-09	2.18E-08	1.34E-10	8.13E-10	4.77E-10	1.42E-09
44	577453.6	4194351	1.68E-08	5.67E-08	4.42E-08	0.00E+00	1.18E-07	2.63E-09	9.14E-09	6.99E-09	1.88E-08	1.15E-10	6.98E-10	4.10E-10	1.22E-09
45	577456	4194340	1.77E-08	5.96E-08	4.65E-08	0.00E+00	1.24E-07	2.76E-09	9.61E-09	7.34E-09	1.97E-08	1.21E-10	7.34E-10	4.31E-10	1.29E-09
46	577464.4	4194349	1.55E-08	5.23E-08	4.08E-08	0.00E+00	1.09E-07	2.42E-09	8.43E-09	6.44E-09	1.73E-08	1.06E-10	6.44E-10	3.78E-10	1.13E-09
47	577474.1	4194351	1.40E-08	4.72E-08	3.68E-08	0.00E+00	9.81E-08	2.19E-09	7.61E-09	5.82E-09	1.56E-08	9.59E-11	5.81E-10	3.41E-10	1.02E-09
48	577483.9	4194353	1.27E-08	4.28E-08	3.34E-08	0.00E+00	8.90E-08	1.98E-09	6.90E-09	5.28E-09	1.42E-08	8.70E-11	5.27E-10	3.10E-10	9.24E-10
49	577493.7	4194355	1.16E-08	3.90E-08	3.04E-08	0.00E+00	8.10E-08	1.81E-09	6.29E-09	4.81E-09	1.29E-08	7.93E-11	4.80E-10	2.82E-10	8.41E-10
50	577503.5	4194357	1.06E-08	3.57E-08	2.78E-08	0.00E+00	7.41E-08	1.65E-09	5.75E-09	4.39E-09	1.18E-08	7.24E-11	4.39E-10	2.58E-10	7.69E-10
51	577513.3	4194359	9.72E-09	3.27E-08	2.55E-08	0.00E+00	6.79E-08	1.51E-09	5.27E-09	4.03E-09	1.08E-08	6.65E-11	4.03E-10	2.36E-10	7.05E-10
52	577523.1	4194361	8.94E-09	3.01E-08	2.35E-08	0.00E+00	6.25E-08	1.39E-09	4.85E-09	3.71E-09	9.95E-09	6.11E-11	3.70E-10	2.17E-10	6.49E-10
53	577531.3	4194370	8.07E-09	2.72E-08	2.12E-08	0.00E+00	5.64E-08	1.26E-09	4.38E-09	3.35E-09	8.98E-09	5.52E-11	3.34E-10	1.96E-10	5.86E-10
54	577534.3	4194356	8.36E-09	2.81E-08	2.20E-08	0.00E+00	5.84E-08	1.30E-09	4.54E-09	3.47E-09	9.30E-09	5.72E-11	3.46E-10	2.03E-10	6.07E-10
55	577541.1	4194372	7.43E-09	2.50E-08	1.95E-08	0.00E+00	5.19E-08	1.16E-09	4.03E-09	3.08E-09	8.27E-09	5.08E-11	3.08E-10	1.81E-10	5.39E-10
56	577544.1	4194358	7.68E-09	2.59E-08	2.02E-08	0.00E+00	5.37E-08	1.20E-09	4.17E-09	3.19E-09	8.55E-09	5.25E-11	3.18E-10	1.87E-10	5.58E-10
57	577550.8	4194374	6.86E-09	2.31E-08	1.80E-08	0.00E+00	4.79E-08	1.07E-09	3.72E-09	2.84E-09	7.63E-09	4.69E-11	2.84E-10	1.67E-10	4.98E-10
58	577553.9	4194360	7.08E-09	2.38E-08	1.86E-08	0.00E+00	4.95E-08	1.10E-09	3.84E-09	2.94E-09	7.88E-09	4.84E-11	2.93E-10	1.72E-10	5.14E-10
59	577561.1	4194374	6.37E-09	2.14E-08	1.67E-08	0.00E+00	4.45E-08	9.92E-10	3.46E-09	2.64E-09	7.09E-09	4.36E-11	2.64E-10	1.55E-10	4.62E-10
60	577563.7	4194362	6.52E-09	2.19E-08	1.71E-08	0.00E+00	4.56E-08	1.02E-09	3.54E-09	2.70E-09	7.26E-09	4.46E-11	2.70E-10	1.59E-10	4.73E-10
61	577570.8	4194377	5.89E-09	1.98E-08	1.55E-08	0.00E+00	4.12E-08	9.18E-10	3.20E-09	2.44E-09	6.56E-09	4.03E-11	2.44E-10	1.43E-10	4.28E-10
62	577573.5	4194365	6.02E-09	2.03E-08	1.58E-08	0.00E+00	4.21E-08	9.38E-10	3.27E-09	2.50E-09	6.70E-09	4.12E-11	2.49E-10	1.46E-10	4.37E-10
63	577580.6	4194379	5.47E-09	1.84E-08	1.44E-08	0.00E+00	3.83E-08	8.53E-10	2.97E-09	2.27E-09	6.09E-09	3.74E-11	2.27E-10	1.33E-10	3.97E-10
64	577583.3	4194367	5.57E-09	1.88E-08	1.46E-08	0.00E+00	3.90E-08	8.68E-10	3.02E-09	2.31E-09	6.20E-09	3.81E-11	2.31E-10	1.36E-10	4.04E-10
65	577590.3	4194381	5.15E-09	1.73E-08	1.35E-08	0.00E+00	3.60E-08	8.02E-10	2.79E-09	2.13E-09	5.73E-09	3.52E-11	2.13E-10	1.25E-10	3.74E-10
66	577593.1	4194369	5.26E-09	1.77E-08	1.38E-08	0.00E+00	3.68E-08	8.19E-10	2.85E-09	2.18E-09	5.85E-09	3.60E-11	2.18E-10	1.28E-10	3.82E-10
67	577600	4194383	4.86E-09	1.64E-08	1.28E-08	0.00E+00	3.40E-08	7.58E-10	2.64E-09	2.02E-09	5.41E-09	3.33E-11	2.01E-10	1.18E-10	3.53E-10
68	577602.8	4194371	4.97E-09	1.67E-08	1.31E-08	0.00E+00	3.48E-08	7.75E-10	2.70E-09	2.06E-09	5.53E-09	3.40E-11	2.06E-10	1.21E-10	3.61E-10
69	577609.8	4194385	4.60E-09	1.55E-08	1.21E-08	0.00E+00	3.22E-08	7.17E-10	2.50E-09	1.91E-09	5.12E-09	3.15E-11	1.91E-10	1.12E-10	3.34E-10
70	577612.6	4194373	4.71E-09	1.58E-08	1.24E-08	0.00E+00	3.29E-08	7.33E-10	2.55E-09	1.95E-09	5.24E-09	3.22E-11	1.95E-10	1.15E-10	3.42E-10
71	577619.5	4194388	4.36E-09	1.47E-08	1.14E-08	0.00E+00	3.05E-08	6.79E-10	2.37E-09	1.81E-09	4.85E-09	2.98E-11	1.81E-10	1.06E-10	3.16E-10
72	577622.4	4194375	4.47E-09	1.50E-08	1.17E-08	0.00E+00	3.13E-08	6.96E-10	2.43E-09	1.85E-09	4.98E-09	3.06E-11	1.85E-10	1.09E-10	3.24E-10
73	577340.3	4194307	1.67E-07	5.62E-07	4.39E-07	0.00E+00	1.17E-06	2.60E-08	9.07E-08	6.93E-08	1.86E-07	1.14E-09	6.92E-09	4.06E-09	1.21E-08
74	577343.8	4194291	1.77E-07	5.94E-07	4.64E-07	0.00E+00	1.23E-06	2.75E-08	9.58E-08	7.32E-08	1.96E-07	1.21E-09	7.31E-09	4.29E-09	1.28E-08
75	577351.9	4194301	1.27E-07	4.26E-07	3.33E-07	0.00E+00	8.86E-07	1.97E-08	6.88E-08	5.25E-08	1.41E-07	8.67E-10	5.25E-09	3.08E-09	9.20E-09
76	577355.3	4194284	1.27E-07	4.28E-07	3.34E-07	0.00E+00	8.89E-07	1.98E-08	6.90E-08	5.27E-08	1.42E-07	8.70E-10	5.27E-09	3.09E-09	9.23E-09
77	577361.6	4194303	9.54E-08	3.21E-07	2.51E-07	0.00E+00	6.67E-07	1.49E-08	5.18E-08	3.96E-08	1.06E-07	6.53E-10	3.95E-09	2.32E-09	6.93E-09
78	577365.1	4194287	9.85E-08	3.31E-07	2.59E-07	0.00E+00	6.88E-07	1.53E-08	5.34E-08	4.08E-08	1.10E-07	6.73E-10	4.08E-09	2.40E-09	7.15E-09

79	577371.4	4194305	7.42E-08	2.50E-07	1.95E-07	0.00E+00	5.18E-07	1.16E-08	4.02E-08	3.07E-08	8.25E-08	5.07E-10	3.07E-09	1.80E-09	5.38E-09
80	577374.9	4194289	7.82E-08	2.63E-07	2.05E-07	0.00E+00	5.47E-07	1.22E-08	4.24E-08	3.24E-08	8.70E-08	5.35E-10	3.24E-09	1.90E-09	5.67E-09
81	577381.2	4194307	5.91E-08	1.99E-07	1.55E-07	0.00E+00	4.14E-07	9.22E-09	3.21E-08	2.45E-08	6.58E-08	4.05E-10	2.45E-09	1.44E-09	4.29E-09
82	577384.7	4194291	6.32E-08	2.13E-07	1.66E-07	0.00E+00	4.42E-07	9.85E-09	3.43E-08	2.62E-08	7.04E-08	4.33E-10	2.62E-09	1.54E-09	4.59E-09
83	577389.2	4194317	4.52E-08	1.52E-07	1.19E-07	0.00E+00	3.16E-07	7.04E-09	2.45E-08	1.87E-08	5.03E-08	3.09E-10	1.87E-09	1.10E-09	3.28E-09
84	577392.7	4194301	5.04E-08	1.70E-07	1.32E-07	0.00E+00	3.52E-07	7.85E-09	2.74E-08	2.09E-08	5.61E-08	3.45E-10	2.09E-09	1.23E-09	3.66E-09
85	577399	4194319	3.74E-08	1.26E-07	9.83E-08	0.00E+00	2.62E-07	5.83E-09	2.03E-08	1.55E-08	4.17E-08	2.56E-10	1.55E-09	9.11E-10	2.72E-09
86	577402.5	4194303	4.18E-08	1.41E-07	1.10E-07	0.00E+00	2.92E-07	6.52E-09	2.27E-08	1.73E-08	4.66E-08	2.86E-10	1.73E-09	1.02E-09	3.04E-09
87	577408.8	4194322	3.23E-08	1.09E-07	8.47E-08	0.00E+00	2.25E-07	5.03E-09	1.75E-08	1.34E-08	3.59E-08	2.21E-10	1.34E-09	7.85E-10	2.34E-09
88	577412.3	4194305	3.58E-08	1.20E-07	9.39E-08	0.00E+00	2.50E-07	5.57E-09	1.94E-08	1.48E-08	3.98E-08	2.45E-10	1.48E-09	8.70E-10	2.60E-09
89	577418.6	4194324	2.85E-08	9.59E-08	7.49E-08	0.00E+00	1.99E-07	4.44E-09	1.55E-08	1.18E-08	3.17E-08	1.95E-10	1.18E-09	6.93E-10	2.07E-09
90	577422.1	4194307	3.10E-08	1.04E-07	8.14E-08	0.00E+00	2.17E-07	4.83E-09	1.68E-08	1.28E-08	3.45E-08	2.12E-10	1.28E-09	7.54E-10	2.25E-09
91	577428.4	4194326	2.53E-08	8.51E-08	6.64E-08	0.00E+00	1.77E-07	3.94E-09	1.37E-08	1.05E-08	2.82E-08	1.73E-10	1.05E-09	6.15E-10	1.84E-09
92	577431.9	4194309	2.71E-08	9.13E-08	7.12E-08	0.00E+00	1.90E-07	4.22E-09	1.47E-08	1.12E-08	3.02E-08	1.85E-10	1.12E-09	6.60E-10	1.97E-09
93	577439.9	4194320	2.33E-08	7.84E-08	6.12E-08	0.00E+00	1.63E-07	3.63E-09	1.26E-08	9.66E-09	2.59E-08	1.59E-10	9.65E-10	5.67E-10	1.69E-09
94	577443.4	4194303	2.45E-08	8.26E-08	6.45E-08	0.00E+00	1.72E-07	3.82E-09	1.33E-08	1.02E-08	2.73E-08	1.68E-10	1.02E-09	5.97E-10	1.78E-09
95	577449.7	4194322	2.09E-08	7.03E-08	5.49E-08	0.00E+00	1.46E-07	3.26E-09	1.13E-08	8.67E-09	2.33E-08	1.43E-10	8.66E-10	5.08E-10	1.52E-09
96	577453.2	4194305	2.17E-08	7.30E-08	5.69E-08	0.00E+00	1.52E-07	3.38E-09	1.18E-08	8.99E-09	2.41E-08	1.48E-10	8.98E-10	5.28E-10	1.57E-09
97	577459.5	4194324	1.87E-08	6.29E-08	4.91E-08	0.00E+00	1.31E-07	2.91E-09	1.01E-08	7.75E-09	2.08E-08	1.28E-10	7.75E-10	4.55E-10	1.36E-09
98	577463	4194307	1.93E-08	6.48E-08	5.06E-08	0.00E+00	1.35E-07	3.00E-09	1.05E-08	7.99E-09	2.14E-08	1.32E-10	7.98E-10	4.69E-10	1.40E-09
99	577467.5	4194334	1.64E-08	5.51E-08	4.30E-08	0.00E+00	1.14E-07	2.55E-09	8.88E-09	6.79E-09	1.82E-08	1.12E-10	6.78E-10	3.98E-10	1.19E-09
100	577471	4194318	1.70E-08	5.73E-08	4.47E-08	0.00E+00	1.19E-07	2.65E-09	9.24E-09	7.06E-09	1.89E-08	1.16E-10	7.05E-10	4.14E-10	1.24E-09
101	577477.3	4194336	1.47E-08	4.96E-08	3.87E-08	0.00E+00	1.03E-07	2.30E-09	8.00E-09	6.11E-09	1.64E-08	1.01E-10	6.10E-10	3.58E-10	1.07E-09
102	577480.8	4194320	1.53E-08	5.15E-08	4.02E-08	0.00E+00	1.07E-07	2.38E-09	8.30E-09	6.34E-09	1.70E-08	1.05E-10	6.34E-10	3.72E-10	1.11E-09
103	577487.1	4194338	1.33E-08	4.49E-08	3.50E-08	0.00E+00	9.32E-08	2.08E-09	7.24E-09	5.53E-09	1.48E-08	9.12E-11	5.52E-10	3.24E-10	9.68E-10
104	577490.6	4194322	1.38E-08	4.65E-08	3.63E-08	0.00E+00	9.67E-08	2.15E-09	7.50E-09	5.73E-09	1.54E-08	9.46E-11	5.73E-10	3.36E-10	1.00E-09
105	577496.9	4194340	1.21E-08	4.08E-08	3.18E-08	0.00E+00	8.47E-08	1.89E-09	6.58E-09	5.02E-09	1.35E-08	8.29E-11	5.02E-10	2.95E-10	8.80E-10
106	577500.3	4194324	1.26E-08	4.23E-08	3.30E-08	0.00E+00	8.78E-08	1.96E-09	6.82E-09	5.21E-09	1.40E-08	8.59E-11	5.20E-10	3.06E-10	9.12E-10
107	577506.6	4194342	1.11E-08	3.72E-08	2.90E-08	0.00E+00	7.73E-08	1.72E-09	6.00E-09	4.58E-09	1.23E-08	7.56E-11	4.58E-10	2.69E-10	8.03E-10
108	577510.1	4194326	1.15E-08	3.86E-08	3.01E-08	0.00E+00	8.01E-08	1.79E-09	6.22E-09	4.75E-09	1.28E-08	7.84E-11	4.75E-10	2.79E-10	8.32E-10
109	577516.4	4194344	1.01E-08	3.41E-08	2.66E-08	0.00E+00	7.08E-08	1.58E-09	5.49E-09	4.20E-09	1.13E-08	6.92E-11	4.19E-10	2.46E-10	7.35E-10
110	577519.9	4194328	1.05E-08	3.53E-08	2.75E-08	0.00E+00	7.33E-08	1.63E-09	5.69E-09	4.35E-09	1.17E-08	7.17E-11	4.34E-10	2.55E-10	7.61E-10
111	577526.2	4194346	9.30E-09	3.13E-08	2.44E-08	0.00E+00	6.50E-08	1.45E-09	5.05E-09	3.86E-09	1.04E-08	6.36E-11	3.85E-10	2.26E-10	6.75E-10
112	577529.7	4194330	9.61E-09	3.24E-08	2.52E-08	0.00E+00	6.72E-08	1.50E-09	5.22E-09	3.99E-09	1.07E-08	6.57E-11	3.98E-10	2.34E-10	6.98E-10
113	577537.7	4194340	8.66E-09	2.91E-08	2.27E-08	0.00E+00	6.05E-08	1.35E-09	4.70E-09	3.59E-09	9.63E-09	5.92E-11	3.59E-10	2.11E-10	6.28E-10
114	577541.2	4194324	8.87E-09	2.99E-08	2.33E-08	0.00E+00	6.20E-08	1.38E-09	4.81E-09	3.68E-09	9.87E-09	6.07E-11	3.67E-10	2.16E-10	6.44E-10
115	577547.5	4194342	7.94E-09	2.67E-08	2.08E-08	0.00E+00	5.55E-08	1.24E-09	4.31E-09	3.29E-09	8.83E-09	5.43E-11	3.29E-10	1.93E-10	5.76E-10
116	577551	4194326	8.12E-09	2.73E-08	2.13E-08	0.00E+00	5.67E-08	1.26E-09	4.40E-09	3.36E-09	9.03E-09	5.55E-11	3.36E-10	1.97E-10	5.89E-10
117	577557.3	4194344	7.28E-09	2.45E-08	1.91E-08	0.00E+00	5.09E-08	1.13E-09	3.95E-09	3.02E-09	8.11E-09	4.98E-11	3.02E-10	1.77E-10	5.29E-10
118	577560.8	4194328	7.42E-09	2.50E-08	1.95E-08	0.00E+00	5.19E-08	1.16E-09	4.03E-09	3.08E-09	8.26E-09	5.08E-11	3.07E-10	1.81E-10	5.39E-10
119	577567.1	4194347	6.68E-09	2.25E-08	1.75E-08	0.00E+00	4.67E-08	1.04E-09	3.63E-09	2.77E-09	7.44E-09	4.57E-11	2.77E-10	1.63E-10	4.85E-10
120	577570.6	4194330	6.80E-09	2.29E-08	1.78E-08	0.00E+00	4.75E-08	1.06E-09	3.69E-09	2.82E-09	7.57E-09	4.65E-11	2.82E-10	1.65E-10	4.93E-10
121	577576.9	4194349	6.14E-09	2.07E-08	1.61E-08	0.00E+00	4.30E-08	9.57E-10	3.33E-09	2.55E-09	6.84E-09	4.20E-11	2.55E-10	1.49E-10	4.46E-10
122	577580.3	4194332	6.24E-09	2.10E-08	1.64E-08	0.00E+00	4.36E-08	9.72E-10	3.39E-09	2.59E-09	6.94E-09	4.27E-11	2.58E-10	1.52E-10	4.53E-10
123	577586.6	4194351	5.70E-09	1.92E-08	1.50E-08	0.00E+00	3.99E-08	8.89E-10	3.09E-09	2.36E-09	6.35E-09	3.90E-11	2.36E-10	1.39E-10	4.14E-10
124	577590.1	4194334	5.82E-09	1.96E-08	1.53E-08	0.00E+00	4.07E-08	9.07E-10	3.16E-09	2.41E-09	6.48E-09	3.98E-11	2.41E-10	1.42E-10	4.22E-10
125	577596.4	4194353	5.38E-09	1.81E-08	1.41E-08	0.00E+00	3.76E-08	8.39E-10	2.92E-09	2.23E-09	5.99E-09	3.68E-11	2.23E-10	1.31E-10	3.91E-10
126	577599.9	4194336	5.48E-09	1.84E-08	1.44E-08	0.00E+00	3.83E-08	8.54E-10	2.97E-09	2.27E-09	6.10E-09	3.75E-11	2.27E-10	1.33E-10	3.98E-10
127	577606.2	4194355	5.09E-09	1.71E-08	1.34E-08	0.00E+00	3.56E-08	7.93E-10	2.76E-09	2.11E-09	5.66E-09	3.48E-11	2.11E-10	1.24E-10	3.69E-10
128	577609.7	4194338	5.17E-09	1.74E-08	1.36E-08	0.00E+00	3.62E-08	8.06E-10	2.81E-09	2.14E-09	5.76E-09	3.54E-11	2.14E-10	1.26E-10	3.76E-10
129	577616	4194357	4.82E-09	1.62E-08	1.27E-08	0.00E+00	3.37E-08	7.51E-10	2.62E-09	2.00E-09	5.37E-09	3.30E-11	2.00E-10	1.17E-10	3.50E-10
130	577619.5	4194340	4.92E-09	1.66E-08	1.29E-08	0.00E+00	3.44E-08	7.66E-10	2.67E-09	2.04E-09	5.47E-09	3.36E-11	2.04E-10	1.20E-10	3.57E-10
131	577625.8	4194359	4.59E-09	1.54E-08	1.20E-08	0.00E+00	3.21E-08	7.14E-10	2.49E-09	1.90E-09	5.10E-09	3.14E-11	1.90E-10	1.12E-10	3.33E-10
132	577629.3	4194343	4.69E-09	1.58E-08	1.23E-08	0.00E+00	3.28E-08	7.31E-10	2.55E-09	1.95E-09	5.22E-09	3.21E-11	1.94E-10	1.14E-10	3.41E-10
133	577342.9	4194268	1.67E-07	5.63E-07	4.39E-07	0.00E+00	1.17E-06	2.61E-08	9.08E-08	6.94E-08	1.86E-07	1.14E-09	6.93E-09	4.07E-09	1.21E-08
134	577314.3	4194245	2.39E-07	8.05E-07	6.28E-07	0.00E+00	1.67E-06	3.73E-08	1.30E-07	9.92E-08	2.66E-07	1.64E-09	9.91E-09	5.82E-09	1.74E-08
135	577305.3	4194243	2.70E-07	9.07E-07	7.08E-07	0.00E+00	1.88E-06	4.20E-08	1.46E-07	1.12E-07	3.00E-07	1.84E-09	1.12E-08	6.56E-09	1.96E-08
136	577296.2	4194240	2.90E-07	9.76E-07	7.62E-07	0.00E+00	2.03E-06	4.52E-08	1.57E-07	1.20E-07	3.23E-07	1.98E-09	1.20E-08	7.05E-09	2.11E-08
137	577344	4194250	1.30E-07	4.39E-07	3.42E-07	0.00E+00	9.11E-07	2.03E-08	7.07E-08	5.40E-08	1.45E-07	8.91E-10	5.40E-09	3.17E-09	9.46E-09
138	577351.4	4194262	1.26E-07	4.23E-07	3.30E-07	0.00E+00	8.79E-07	1.96E-08	6.82E-08	5.21E-08	1.40E-07	8.60E-10	5.21E-09	3.06E-09	9.12E-09
139	577316.7	4194235	1.77E-07	5.97E-07	4.66E-07	0.00E+00	1.24E-06	2.76E-08	9.63E-08	7.36E-08	1.97E-07	1.21E-09	7.35E-09	4.32E-09	1.29E-08
140	577307.6	4194233	1.94E-07	6.53E-07	5.09E-07	0.00E+00	1.36E-06	3.02E-08	1.05E-07	8.04E-08	2.16E-07	1.33E-09	8.04E-09	4.72E-09	1.41E-08
141	577298.6	4194231	2.05E-07	6.91E-07	5.39E-07	0.00E+00	1.44E-06	3.20E-08	1.11E-07	8.52E-08	2.29E-07	1.40E-09	8.51E-09	5.00E-09	1.49E-08
142	577346.3	4194241	1.09E-07	3.67E-07	2.86E-07	0.00E+00	7.62E-07	1.70E-08	5.91E-08	4.52E-08	1.21E-07	7.45E-10	4.51E-09	2.65E-09	7.91E-09
143	577359.9	4194257	9.76E-08	3.29E-07	2.56E-07	0.00E+00	6.83E-07	1.52E-08	5.30E-08	4.05E-08	1.09E-07	6.68E-10	4.04E-09	2.38E-09	7.09E-09
144	577362.5	4194272	1.03E-07	3.47E-07	2.71E-07	0.00E+00	7.20E-07	1.61E-08	5.59E-08	4.27E-08	1.15E-07	7.05E-10	4.27E-09	2.51E-09	7.48E-09
145	577319	4194225	1.37E-07	4.61E-07	3.60E-07	0.00E+00	9.58E-07	2.13E-08	7.44E-08	5.68E-08	1.53E-07	9.37E-10	5.68E-09	3.33E-09	9.95E-09
146	577310	4194223	1.47E-07	4.95E-07	3.86E-07	0.00E+00	1.03E-06	2.29E-08	7.99E-08	6.10E-08	1.64E-07	1.01E-09	6.10E-09	3.58E-09	1.07E-08
147	577301	4194221	1.55E-07	5.20E-07	4.06E-07	0.00E+00	1.08E-06	2.41E-08	8.39E-08	6.41E-08	1.72E-07	1.06E-09	6.40E-09	3.76E-09	1.12E-08
148	577352.4	4194234	8.90E-08	2.99E-07	2.34E-07	0.00E+00	6.22E-07	1.39E-08	4.83E-08	3.69E-08	9.90E-08	6.08E-10	3.69E-09	2.16E-09	6.46E-09
149	577359.7	4194239	8.26E-08	2.78E-07	2.17E-07	0.00E+00	5.77E-07	1.29E-08	4.48E-08	3.42E-08	9.19E-08	5.65E-10	3.42E-09	2.01E-09	5.99E-09
150	577368.6	4194253	7.91E-08	2.66E-07	2.08E-07	0.00E+00	5.53E-07	1.23E-08	4.29E-08	3.28E-08	8.80E-08	5.41E-10	3.27E-09	1.92E-09	5.74E-09
151	577370.2	4194262	8.19E-08	2.76E-07	2.15E-07	0.00E+00	5.73E-07	1.28E-08	4.44E-08	3.40E-08	9.12E-08	5.60E-10	3.39E-09	1.99E-09	5.95E-09
152	577330.4	4194218	1.02E-07	3.44E-07	2.69E-07	0.00E+00	7.15E-07	1.59E-08	5.55E-08	4.24E-08	1.14E-07	7.00E-10	4.24E-09	2.49E-09	7.43E-09
153	577321.4	4194216	1.11E-07	3.73E-07	2.91E-07	0.00E+00	7.76E-07	1.73E-08	6.02E-08	4.60E-08	1.23E-07	7.59E-10	4.60E-09	2.70E-09	8.05E-09
154	577312.4	4194213	1.18E-07	3.96E-07	3.09E-07	0.00E+00	8.22E-07	1.83E-08	6.38E-08	4.87E-08	1.31E-07	8.04E-10	4.87E-09	2.86E-09	8.53E-09
155	577303.3	4194211	1.22E-07	4.10E-07	3.20E-07	0.00E+00	8.51E-07	1.90E-08	6.60E-08	5.05E-08	1.35E-07	8.32E-10	5.04E-09	2.96E-09	8.83E-09
156	577294.3	4194209	1.22E-07	4.12E-07	3.21E-07	0.00E+00	8.55E-07	1.91E-08	6.64E-08	5.07E-08	1.36E-07	8.36E-10	5.07E-09	2.97E-09	8.88E-09
157	577285.3	4194207	1.19E-07	4.01E-07	3.13E-07	0.00E+00	8.34E-07	1.86E-08	6.47E-08	4.94E-08	1.33E-07	8.16E-10	4.94E-09	2.90E-09	8.66E-09
158	577354.1	4194224	7.66E-08	2.58E-07	2.01E-07	0.00E+00	5.36E-07	1.19E-08	4.16E-08	3.18E-08	8.53E-08	5.24E-10	3.17E-09	1.86E-09	5.56E-09
159	577368.4	4194234	6.75E-08	2.27E-07	1.77E-07	0.00E+00	4.72E-07	1.05E-08	3.67E-08	2.80E-08	7.52E-08	4.62E-10	2.80E-09	1.64E-09	4.90E-09
160	577377	4194248	6.51E-08	2.19E-07	1.71E-07	0.00E+00	4.55E-07	1.01E-08	3.53E-08	2.70E-08	7.25E-08	4.45E-10	2.70E-09	1.58E-09	4.73E-09

161	577380.1	4194265	6.84E-08	2.30E-07	1.80E-07	0.00E+00	4.78E-07	1.07E-08	3.71E-08	2.84E-08	7.61E-08	4.68E-10	2.83E-09	1.66E-09	4.96E-09
162	577323.8	4194206	9.13E-08	3.07E-07	2.40E-07	0.00E+00	6.38E-07	1.42E-08	4.95E-08	3.79E-08	1.02E-07	6.24E-10	3.78E-09	2.22E-09	6.63E-09
163	577314.7	4194204	9.59E-08	3.23E-07	2.52E-07	0.00E+00	6.71E-07	1.49E-08	5.21E-08	3.98E-08	1.07E-07	6.56E-10	3.97E-09	2.33E-09	6.96E-09
164	577305.7	4194202	9.82E-08	3.31E-07	2.58E-07	0.00E+00	6.87E-07	1.53E-08	5.33E-08	4.07E-08	1.09E-07	6.72E-10	4.07E-09	2.39E-09	7.13E-09
165	577296.7	4194199	9.79E-08	3.29E-07	2.57E-07	0.00E+00	6.84E-07	1.52E-08	5.31E-08	4.06E-08	1.09E-07	6.69E-10	4.05E-09	2.38E-09	7.10E-09
166	577287.6	4194197	9.50E-08	3.20E-07	2.49E-07	0.00E+00	6.64E-07	1.48E-08	5.15E-08	3.94E-08	1.06E-07	6.50E-10	3.94E-09	2.31E-09	6.90E-09
167	577356.1	4194213	6.62E-08	2.23E-07	1.74E-07	0.00E+00	4.63E-07	1.03E-08	3.59E-08	2.75E-08	7.37E-08	4.53E-10	2.74E-09	1.61E-09	4.81E-09
168	577370	4194224	5.98E-08	2.01E-07	1.57E-07	0.00E+00	4.18E-07	9.32E-09	3.25E-08	2.48E-08	6.66E-08	4.09E-10	2.48E-09	1.46E-09	4.34E-09
169	577385.4	4194242	5.45E-08	1.84E-07	1.43E-07	0.00E+00	3.81E-07	8.50E-09	2.96E-08	2.26E-08	6.07E-08	3.73E-10	2.26E-09	1.33E-09	3.96E-09
170	577388.5	4194259	5.70E-08	1.92E-07	1.50E-07	0.00E+00	3.99E-07	8.89E-09	3.10E-08	2.36E-08	6.35E-08	3.90E-10	2.36E-09	1.39E-09	4.14E-09
171	577391.5	4194276	5.69E-08	1.91E-07	1.49E-07	0.00E+00	3.98E-07	8.86E-09	3.09E-08	2.36E-08	6.33E-08	3.89E-10	2.36E-09	1.38E-09	4.13E-09
172	577326.1	4194196	7.62E-08	2.56E-07	2.00E-07	0.00E+00	5.33E-07	1.19E-08	4.13E-08	3.16E-08	8.48E-08	5.21E-10	3.16E-09	1.85E-09	5.53E-09
173	577317.1	4194194	7.94E-08	2.67E-07	2.08E-07	0.00E+00	5.55E-07	1.24E-08	4.31E-08	3.29E-08	8.84E-08	5.43E-10	3.29E-09	1.93E-09	5.76E-09
174	577308.1	4194192	8.07E-08	2.72E-07	2.12E-07	0.00E+00	5.64E-07	1.26E-08	4.38E-08	3.35E-08	8.98E-08	5.52E-10	3.34E-09	1.96E-09	5.86E-09
175	577299	4194190	8.00E-08	2.69E-07	2.10E-07	0.00E+00	5.60E-07	1.25E-08	4.34E-08	3.32E-08	8.91E-08	5.47E-10	3.32E-09	1.95E-09	5.81E-09
176	577290	4194187	7.77E-08	2.62E-07	2.04E-07	0.00E+00	5.43E-07	1.21E-08	4.22E-08	3.22E-08	8.65E-08	5.32E-10	3.22E-09	1.89E-09	5.64E-09
177	577358.1	4194204	5.76E-08	1.94E-07	1.51E-07	0.00E+00	4.03E-07	8.97E-09	3.12E-08	2.39E-08	6.41E-08	3.94E-10	2.39E-09	1.40E-09	4.18E-09
178	577371.8	4194213	5.29E-08	1.78E-07	1.39E-07	0.00E+00	3.70E-07	8.24E-09	2.87E-08	2.19E-08	5.89E-08	3.62E-10	2.19E-09	1.29E-09	3.84E-09
179	577385.5	4194223	4.74E-08	1.60E-07	1.25E-07	0.00E+00	3.32E-07	7.39E-09	2.57E-08	1.97E-08	5.28E-08	3.24E-10	1.97E-09	1.15E-09	3.44E-09
180	577393.9	4194237	4.62E-08	1.56E-07	1.21E-07	0.00E+00	3.23E-07	7.20E-09	2.51E-08	1.92E-08	5.15E-08	3.16E-10	1.92E-09	1.12E-09	3.36E-09
181	577396.8	4194253	4.84E-08	1.63E-07	1.27E-07	0.00E+00	3.38E-07	7.54E-09	2.62E-08	2.01E-08	5.38E-08	3.31E-10	2.00E-09	1.18E-09	3.51E-09
182	577399.8	4194270	4.88E-08	1.64E-07	1.28E-07	0.00E+00	3.41E-07	7.60E-09	2.65E-08	2.02E-08	5.43E-08	3.34E-10	2.02E-09	1.19E-09	3.54E-09
183	577402.8	4194287	4.63E-08	1.56E-07	1.22E-07	0.00E+00	3.24E-07	7.21E-09	2.51E-08	1.92E-08	5.15E-08	3.17E-10	1.92E-09	1.13E-09	3.36E-09
184	577360.2	4194194	5.04E-08	1.70E-07	1.32E-07	0.00E+00	3.52E-07	7.85E-09	2.73E-08	2.09E-08	5.61E-08	3.45E-10	2.09E-09	1.23E-09	3.66E-09
185	577373.8	4194203	4.69E-08	1.58E-07	1.23E-07	0.00E+00	3.28E-07	7.31E-09	2.55E-08	1.95E-08	5.22E-08	3.21E-10	1.94E-09	1.14E-09	3.41E-09
186	577387.3	4194213	4.27E-08	1.44E-07	1.12E-07	0.00E+00	2.98E-07	6.65E-09	2.32E-08	1.77E-08	4.75E-08	2.92E-10	1.77E-09	1.04E-09	3.10E-09
187	577402.3	4194231	3.96E-08	1.33E-07	1.04E-07	0.00E+00	2.77E-07	6.17E-09	2.15E-08	1.64E-08	4.41E-08	2.71E-10	1.64E-09	9.64E-10	2.88E-09
188	577405.3	4194248	4.15E-08	1.40E-07	1.09E-07	0.00E+00	2.90E-07	6.47E-09	2.25E-08	1.72E-08	4.62E-08	2.84E-10	1.72E-09	1.01E-09	3.02E-09
189	577408.2	4194264	4.21E-08	1.42E-07	1.11E-07	0.00E+00	2.94E-07	6.56E-09	2.28E-08	1.75E-08	4.69E-08	2.88E-10	1.74E-09	1.02E-09	3.06E-09
190	577411.1	4194280	4.07E-08	1.37E-07	1.07E-07	0.00E+00	2.85E-07	6.35E-09	2.21E-08	1.69E-08	4.53E-08	2.79E-10	1.69E-09	9.91E-10	2.96E-09
191	577387	4194202	3.90E-08	1.31E-07	1.02E-07	0.00E+00	2.73E-07	6.08E-09	2.12E-08	1.62E-08	4.34E-08	2.67E-10	1.62E-09	9.49E-10	2.83E-09
192	577394.4	4194207	3.71E-08	1.25E-07	9.74E-08	0.00E+00	2.59E-07	5.78E-09	2.01E-08	1.54E-08	4.13E-08	2.54E-10	1.54E-09	9.02E-10	2.69E-09
193	577401.9	4194212	3.52E-08	1.18E-07	9.24E-08	0.00E+00	2.46E-07	5.48E-09	1.91E-08	1.46E-08	3.92E-08	2.41E-10	1.46E-09	8.56E-10	2.55E-09
194	577410.9	4194227	3.45E-08	1.16E-07	9.05E-08	0.00E+00	2.41E-07	5.37E-09	1.87E-08	1.43E-08	3.84E-08	2.36E-10	1.43E-09	8.39E-10	2.50E-09
195	577412.6	4194236	3.55E-08	1.19E-07	9.31E-08	0.00E+00	2.48E-07	5.53E-09	1.92E-08	1.47E-08	3.95E-08	2.43E-10	1.47E-09	8.63E-10	2.57E-09
196	577414.2	4194245	3.62E-08	1.22E-07	9.50E-08	0.00E+00	2.53E-07	5.64E-09	1.96E-08	1.50E-08	4.03E-08	2.48E-10	1.50E-09	8.81E-10	2.63E-09
197	577415.8	4194254	3.66E-08	1.23E-07	9.60E-08	0.00E+00	2.56E-07	5.70E-09	1.98E-08	1.52E-08	4.07E-08	2.50E-10	1.51E-09	8.89E-10	2.65E-09
198	577417.4	4194263	3.66E-08	1.23E-07	9.61E-08	0.00E+00	2.56E-07	5.70E-09	1.98E-08	1.52E-08	4.07E-08	2.50E-10	1.52E-09	8.90E-10	2.66E-09
199	577419	4194272	3.61E-08	1.22E-07	9.49E-08	0.00E+00	2.53E-07	5.63E-09	1.96E-08	1.50E-08	4.02E-08	2.47E-10	1.50E-09	8.79E-10	2.62E-09
200	577420.6	4194281	3.52E-08	1.19E-07	9.25E-08	0.00E+00	2.46E-07	5.49E-09	1.91E-08	1.46E-08	3.92E-08	2.41E-10	1.46E-09	8.57E-10	2.56E-09
201	577422.2	4194290	3.39E-08	1.14E-07	8.91E-08	0.00E+00	2.37E-07	5.29E-09	1.84E-08	1.41E-08	3.78E-08	2.32E-10	1.41E-09	8.26E-10	2.46E-09
202	577351.9	4194165	4.02E-08	1.35E-07	1.06E-07	0.00E+00	2.81E-07	6.26E-09	2.18E-08	1.67E-08	4.47E-08	2.75E-10	1.66E-09	9.78E-10	2.92E-09
203	577403.2	4194202	3.22E-08	1.08E-07	8.45E-08	0.00E+00	2.25E-07	5.01E-09	1.75E-08	1.33E-08	3.58E-08	2.20E-10	1.33E-09	7.83E-10	2.34E-09
204	577410.5	4194207	3.07E-08	1.03E-07	8.06E-08	0.00E+00	2.15E-07	4.78E-09	1.67E-08	1.27E-08	3.42E-08	2.10E-10	1.27E-09	7.47E-10	2.23E-09
205	577419.4	4194221	3.02E-08	1.01E-07	7.92E-08	0.00E+00	2.11E-07	4.70E-09	1.64E-08	1.25E-08	3.36E-08	2.06E-10	1.25E-09	7.34E-10	2.19E-09
206	577422.5	4194239	3.16E-08	1.06E-07	8.31E-08	0.00E+00	2.21E-07	4.93E-09	1.72E-08	1.31E-08	3.52E-08	2.16E-10	1.31E-09	7.70E-10	2.30E-09
207	577425.7	4194257	3.21E-08	1.08E-07	8.44E-08	0.00E+00	2.25E-07	5.01E-09	1.74E-08	1.33E-08	3.58E-08	2.20E-10	1.33E-09	7.82E-10	2.33E-09
208	577428.9	4194274	3.14E-08	1.06E-07	8.24E-08	0.00E+00	2.19E-07	4.89E-09	1.70E-08	1.30E-08	3.49E-08	2.15E-10	1.30E-09	7.64E-10	2.28E-09
209	577432	4194292	2.94E-08	9.90E-08	7.73E-08	0.00E+00	2.06E-07	4.59E-09	1.60E-08	1.22E-08	3.28E-08	2.01E-10	1.22E-09	7.16E-10	2.14E-09
210	577344.6	4194160	4.00E-08	1.35E-07	1.05E-07	0.00E+00	2.80E-07	6.23E-09	2.17E-08	1.66E-08	4.45E-08	2.73E-10	1.66E-09	9.73E-10	2.90E-09
211	577335.6	4194157	4.11E-08	1.38E-07	1.08E-07	0.00E+00	2.88E-07	6.41E-09	2.23E-08	1.71E-08	4.58E-08	2.81E-10	1.70E-09	1.00E-09	2.99E-09
212	577326.6	4194155	4.17E-08	1.40E-07	1.10E-07	0.00E+00	2.92E-07	6.50E-09	2.26E-08	1.73E-08	4.64E-08	2.85E-10	1.73E-09	1.01E-09	3.03E-09
213	577317.5	4194153	4.17E-08	1.40E-07	1.10E-07	0.00E+00	2.92E-07	6.50E-09	2.26E-08	1.73E-08	4.64E-08	2.85E-10	1.73E-09	1.01E-09	3.03E-09
214	577308.5	4194151	4.12E-08	1.39E-07	1.08E-07	0.00E+00	2.88E-07	6.42E-09	2.23E-08	1.71E-08	4.58E-08	2.82E-10	1.71E-09	1.00E-09	2.99E-09
215	577299.5	4194149	4.02E-08	1.35E-07	1.06E-07	0.00E+00	2.81E-07	6.26E-09	2.18E-08	1.67E-08	4.47E-08	2.75E-10	1.67E-09	9.78E-10	2.92E-09
216	577354.2	4194155	3.54E-08	1.19E-07	9.30E-08	0.00E+00	2.48E-07	5.52E-09	1.92E-08	1.47E-08	3.94E-08	2.42E-10	1.47E-09	8.62E-10	2.57E-09
217	577368.6	4194165	3.48E-08	1.17E-07	9.15E-08	0.00E+00	2.44E-07	5.43E-09	1.89E-08	1.44E-08	3.88E-08	2.38E-10	1.44E-09	8.47E-10	2.53E-09
218	577427.8	4194216	2.66E-08	8.95E-08	6.98E-08	0.00E+00	1.86E-07	4.14E-09	1.44E-08	1.10E-08	2.96E-08	1.82E-10	1.10E-09	6.47E-10	1.93E-09
219	577430.9	4194233	2.79E-08	9.37E-08	7.31E-08	0.00E+00	1.95E-07	4.34E-09	1.51E-08	1.15E-08	3.10E-08	1.90E-10	1.15E-09	6.78E-10	2.02E-09
220	577434	4194251	2.84E-08	9.57E-08	7.47E-08	0.00E+00	1.99E-07	4.43E-09	1.54E-08	1.18E-08	3.16E-08	1.94E-10	1.18E-09	6.92E-10	2.06E-09
221	577437.2	4194268	2.80E-08	9.44E-08	7.36E-08	0.00E+00	1.96E-07	4.37E-09	1.52E-08	1.16E-08	3.12E-08	1.92E-10	1.16E-09	6.82E-10	2.04E-09
222	577440.3	4194286	2.67E-08	8.97E-08	7.00E-08	0.00E+00	1.86E-07	4.15E-09	1.45E-08	1.11E-08	2.97E-08	1.82E-10	1.10E-09	6.49E-10	1.94E-09
223	577338	4194148	3.60E-08	1.21E-07	9.45E-08	0.00E+00	2.52E-07	5.61E-09	1.95E-08	1.49E-08	4.01E-08	2.46E-10	1.49E-09	8.75E-10	2.61E-09
224	577328.9	4194145	3.64E-08	1.22E-07	9.55E-08	0.00E+00	2.54E-07	5.66E-09	1.97E-08	1.51E-08	4.05E-08	2.49E-10	1.51E-09	8.84E-10	2.64E-09
225	577319.9	4194143	3.63E-08	1.22E-07	9.52E-08	0.00E+00	2.54E-07	5.65E-09	1.97E-08	1.50E-08	4.04E-08	2.48E-10	1.50E-09	8.82E-10	2.63E-09
226	577310.9	4194141	3.58E-08	1.20E-07	9.39E-08	0.00E+00	2.50E-07	5.57E-09	1.94E-08	1.48E-08	3.98E-08	2.45E-10	1.48E-09	8.70E-10	2.60E-09
227	577301.8	4194139	3.50E-08	1.18E-07	9.18E-08	0.00E+00	2.45E-07	5.45E-09	1.90E-08	1.45E-08	3.89E-08	2.39E-10	1.45E-09	8.51E-10	2.54E-09
228	577356.5	4194145	3.14E-08	1.06E-07	8.25E-08	0.00E+00	2.20E-07	4.89E-09	1.70E-08	1.30E-08	3.50E-08	2.15E-10	1.30E-09	7.64E-10	2.28E-09
229	577370.7	4194156	3.11E-08	1.05E-07	8.18E-08	0.00E+00	2.18E-07	4.85E-09	1.69E-08	1.29E-08	3.47E-08	2.13E-10	1.29E-09	7.57E-10	2.26E-09
230	577384.9	4194166	2.99E-08	1.00E-07	7.84E-08	0.00E+00	2.09E-07	4.65E-09	1.62E-08	1.24E-08	3.32E-08	2.04E-10	1.24E-09	7.26E-10	2.17E-09
231	577436.3	4194210	2.36E-08	7.94E-08	6.19E-08	0.00E+00	1.65E-07	3.67E-09	1.28E-08	9.78E-09	2.62E-08	1.61E-10	9.77E-10	5.74E-10	1.71E-09
232	577439.3	4194228	2.47E-08	8.30E-08	6.48E-08	0.00E+00	1.72E-07	3.84E-09	1.34E-08	1.02E-08	2.75E-08	1.69E-10	1.02E-09	6.00E-10	1.79E-09
233	577442.4	4194245	2.52E-08	8.50E-08	6.63E-08	0.00E+00	1.76E-07	3.93E-09	1.37E-08	1.05E-08	2.81E-08	1.73E-10	1.05E-09	6.14E-10	1.83E-09
234	577445.5	4194262	2.51E-08	8.45E-08	6.60E-08	0.00E+00	1.76E-07	3.91E-09	1.36E-08	1.04E-08	2.80E-08	1.72E-10	1.04E-09	6.11E-10	1.82E-09
235	577448.6	4194279	2.42E-08	8.15E-08	6.36E-08	0.00E+00	1.69E-07	3.77E-09	1.31E-08	1.00E-08	2.70E-08	1.66E-10	1.00E-09	5.89E-10	1.76E-09
236	577340.3	4194138	3.17E-08	1.07E-07	8.32E-08	0.00E+00	2.22E-07	4.94E-09	1.72E-08	1.31E-08	3.53E-08	2.17E-10	1.31E-09	7.71E-10	2.30E-09
237	577331.3	4194136	3.19E-08	1.07E-07	8.38E-08	0.00E+00	2.23E-07	4.97E-09	1.73E-08	1.32E-08	3.55E-08	2.18E-10	1.32E-09	7.76E-10	2.32E-09
238	577322.3	4194134	3.18E-08	1.07E-07	8.35E-08	0.00E+00	2.22E-07	4.95E-09	1.73E-08	1.32E-08	3.54E-08	2.17E-10	1.32E-09	7.74E-10	2.31E-09
239	577313.2	4194131	3.13E-08	1.05E-07	8.23E-08	0.00E+00	2.19E-07	4.88E-09	1.70E-08	1.30E-08	3.49E-08	2.14E-10	1.30E-09	7.63E-10	2.28E-09
240	577304.2	4194129	3.07E-08	1.03E-07	8.05E-08	0.00E+00	2.14E-07	4.78E-09	1.66E-08	1.27E-08	3.41E-08	2.10E-10	1.27E-09	7.46E-10	2.23E-09
241	577358.8	4194135	2.80E-08	9.42E-08	7.35E-08	0.00E+00	1.96E-07	4.36E-09	1.52E-08	1.16E-08	3.12E-08	1.91E-10	1.16E-09	6.81E-10	2.03E-09
242	577372.8	4194146	2.80E-08	9.41E-08	7.34E-08	0.00E+00	1.95E-07	4.36E-09	1.52E-08	1.16E-08	3.11E-08	1.91E-10	1.16E-09	6.80E-10	2.03E-09

243	577386.9	4194156	2.71E-08	9.11E-08	7.11E-08	0.00E+00	1.89E-07	4.22E-09	1.47E-08	1.12E-08	3.01E-08	1.85E-10	1.12E-09	6.58E-10	1.96E-09
244	577401	4194166	2.56E-08	8.61E-08	6.71E-08	0.00E+00	1.79E-07	3.98E-09	1.39E-08	1.06E-08	2.85E-08	1.75E-10	1.06E-09	6.22E-10	1.86E-09
245	577415.1	4194176	2.39E-08	8.06E-08	6.29E-08	0.00E+00	1.67E-07	3.73E-09	1.30E-08	9.93E-09	2.66E-08	1.64E-10	9.92E-10	5.82E-10	1.74E-09
246	577447.8	4194222	2.20E-08	7.39E-08	5.77E-08	0.00E+00	1.54E-07	3.42E-09	1.19E-08	9.10E-09	2.44E-08	1.50E-10	9.10E-10	5.34E-10	1.59E-09
247	577450.8	4194239	2.25E-08	7.58E-08	5.92E-08	0.00E+00	1.58E-07	3.51E-09	1.22E-08	9.34E-09	2.51E-08	1.54E-10	9.33E-10	5.48E-10	1.64E-09
248	577453.8	4194256	2.26E-08	7.60E-08	5.93E-08	0.00E+00	1.58E-07	3.52E-09	1.22E-08	9.36E-09	2.51E-08	1.54E-10	9.35E-10	5.49E-10	1.64E-09
249	577456.9	4194273	2.20E-08	7.40E-08	5.78E-08	0.00E+00	1.54E-07	3.43E-09	1.19E-08	9.12E-09	2.45E-08	1.50E-10	9.11E-10	5.35E-10	1.60E-09
250	577459.9	4194290	2.08E-08	7.02E-08	5.47E-08	0.00E+00	1.46E-07	3.25E-09	1.13E-08	8.64E-09	2.32E-08	1.43E-10	8.64E-10	5.07E-10	1.51E-09
251	577342.7	4194128	2.81E-08	9.45E-08	7.38E-08	0.00E+00	1.96E-07	4.38E-09	1.52E-08	1.16E-08	3.13E-08	1.92E-10	1.16E-09	6.83E-10	2.04E-09
252	577333.7	4194126	2.82E-08	9.50E-08	7.41E-08	0.00E+00	1.97E-07	4.40E-09	1.53E-08	1.17E-08	3.14E-08	1.93E-10	1.17E-09	6.87E-10	2.05E-09
253	577324.6	4194124	2.81E-08	9.46E-08	7.38E-08	0.00E+00	1.96E-07	4.38E-09	1.52E-08	1.17E-08	3.13E-08	1.92E-10	1.16E-09	6.84E-10	2.04E-09
254	577315.6	4194122	2.77E-08	9.33E-08	7.28E-08	0.00E+00	1.94E-07	4.32E-09	1.50E-08	1.15E-08	3.08E-08	1.90E-10	1.15E-09	6.74E-10	2.01E-09
255	577306.6	4194119	2.71E-08	9.12E-08	7.12E-08	0.00E+00	1.89E-07	4.22E-09	1.47E-08	1.12E-08	3.02E-08	1.85E-10	1.12E-09	6.59E-10	1.97E-09
256	577361.6	4194126	2.51E-08	8.46E-08	6.60E-08	0.00E+00	1.76E-07	3.91E-09	1.36E-08	1.04E-08	2.80E-08	1.72E-10	1.04E-09	6.11E-10	1.82E-09
257	577369.1	4194132	2.53E-08	8.50E-08	6.63E-08	0.00E+00	1.77E-07	3.94E-09	1.37E-08	1.05E-08	2.81E-08	1.73E-10	1.05E-09	6.15E-10	1.83E-09
258	577376.6	4194137	2.52E-08	8.47E-08	6.61E-08	0.00E+00	1.76E-07	3.92E-09	1.37E-08	1.04E-08	2.80E-08	1.72E-10	1.04E-09	6.12E-10	1.83E-09
259	577384.1	4194142	2.49E-08	8.38E-08	6.54E-08	0.00E+00	1.74E-07	3.88E-09	1.35E-08	1.03E-08	2.77E-08	1.70E-10	1.03E-09	6.06E-10	1.81E-09
260	577391.6	4194148	2.44E-08	8.22E-08	6.42E-08	0.00E+00	1.71E-07	3.81E-09	1.33E-08	1.01E-08	2.72E-08	1.67E-10	1.01E-09	5.94E-10	1.77E-09
261	577399.1	4194153	2.38E-08	8.02E-08	6.25E-08	0.00E+00	1.67E-07	3.71E-09	1.29E-08	9.87E-09	2.65E-08	1.63E-10	9.87E-10	5.79E-10	1.73E-09
262	577406.6	4194159	2.31E-08	7.78E-08	6.07E-08	0.00E+00	1.62E-07	3.60E-09	1.25E-08	9.58E-09	2.57E-08	1.58E-10	9.57E-10	5.62E-10	1.68E-09
263	577414.1	4194164	2.24E-08	7.52E-08	5.87E-08	0.00E+00	1.56E-07	3.48E-09	1.21E-08	9.27E-09	2.49E-08	1.53E-10	9.26E-10	5.44E-10	1.62E-09
264	577421.6	4194169	2.16E-08	7.27E-08	5.67E-08	0.00E+00	1.51E-07	3.36E-09	1.17E-08	8.95E-09	2.40E-08	1.48E-10	8.94E-10	5.25E-10	1.57E-09
265	577429.1	4194175	2.08E-08	7.01E-08	5.47E-08	0.00E+00	1.46E-07	3.24E-09	1.13E-08	8.63E-09	2.32E-08	1.42E-10	8.62E-10	5.06E-10	1.51E-09
266	577436.6	4194180	2.00E-08	6.74E-08	5.26E-08	0.00E+00	1.40E-07	3.12E-09	1.09E-08	8.30E-09	2.23E-08	1.37E-10	8.30E-10	4.87E-10	1.45E-09
267	577456.5	4194218	1.97E-08	6.64E-08	5.18E-08	0.00E+00	1.38E-07	3.08E-09	1.07E-08	8.19E-09	2.20E-08	1.35E-10	8.18E-10	4.80E-10	1.43E-09
268	577458.1	4194227	2.01E-08	6.75E-08	5.27E-08	0.00E+00	1.40E-07	3.12E-09	1.09E-08	8.32E-09	2.23E-08	1.37E-10	8.31E-10	4.88E-10	1.46E-09
269	577459.8	4194237	2.03E-08	6.82E-08	5.32E-08	0.00E+00	1.42E-07	3.16E-09	1.10E-08	8.40E-09	2.26E-08	1.39E-10	8.39E-10	4.93E-10	1.47E-09
270	577461.4	4194246	2.04E-08	6.85E-08	5.34E-08	0.00E+00	1.42E-07	3.17E-09	1.10E-08	8.44E-09	2.27E-08	1.39E-10	8.43E-10	4.95E-10	1.48E-09
271	577463	4194255	2.03E-08	6.83E-08	5.33E-08	0.00E+00	1.42E-07	3.16E-09	1.10E-08	8.42E-09	2.26E-08	1.39E-10	8.41E-10	4.94E-10	1.47E-09
272	577464.6	4194264	2.01E-08	6.77E-08	5.28E-08	0.00E+00	1.41E-07	3.13E-09	1.09E-08	8.34E-09	2.24E-08	1.38E-10	8.33E-10	4.89E-10	1.46E-09
273	577466.3	4194273	1.98E-08	6.65E-08	5.19E-08	0.00E+00	1.38E-07	3.08E-09	1.07E-08	8.20E-09	2.20E-08	1.35E-10	8.19E-10	4.81E-10	1.44E-09
274	577467.9	4194282	1.93E-08	6.49E-08	5.07E-08	0.00E+00	1.35E-07	3.01E-09	1.05E-08	8.00E-09	2.15E-08	1.32E-10	7.99E-10	4.69E-10	1.40E-09
275	577469.5	4194291	1.87E-08	6.29E-08	4.91E-08	0.00E+00	1.31E-07	2.91E-09	1.01E-08	7.75E-09	2.08E-08	1.28E-10	7.75E-10	4.55E-10	1.36E-09
276	577471.1	4194300	1.80E-08	6.06E-08	4.73E-08	0.00E+00	1.26E-07	2.81E-09	9.77E-09	7.46E-09	2.00E-08	1.23E-10	7.46E-10	4.38E-10	1.31E-09
277	577354.1	4194121	2.47E-08	8.32E-08	6.49E-08	0.00E+00	1.73E-07	3.85E-09	1.34E-08	1.02E-08	2.75E-08	1.69E-10	1.02E-09	6.01E-10	1.79E-09
278	577345.1	4194119	2.50E-08	8.42E-08	6.57E-08	0.00E+00	1.75E-07	3.90E-09	1.36E-08	1.04E-08	2.79E-08	1.71E-10	1.04E-09	6.09E-10	1.82E-09
279	577336	4194116	2.51E-08	8.45E-08	6.60E-08	0.00E+00	1.76E-07	3.91E-09	1.36E-08	1.04E-08	2.80E-08	1.72E-10	1.04E-09	6.11E-10	1.82E-09
280	577327	4194114	2.50E-08	8.41E-08	6.56E-08	0.00E+00	1.75E-07	3.89E-09	1.36E-08	1.04E-08	2.78E-08	1.71E-10	1.03E-09	6.08E-10	1.81E-09
281	577318	4194112	2.46E-08	8.29E-08	6.47E-08	0.00E+00	1.72E-07	3.84E-09	1.34E-08	1.02E-08	2.74E-08	1.68E-10	1.02E-09	5.99E-10	1.79E-09
282	577308.9	4194110	2.41E-08	8.11E-08	6.33E-08	0.00E+00	1.69E-07	3.76E-09	1.31E-08	9.99E-09	2.68E-08	1.65E-10	9.98E-10	5.86E-10	1.75E-09
283	577363.9	4194116	2.26E-08	7.62E-08	5.95E-08	0.00E+00	1.58E-07	3.53E-09	1.23E-08	9.39E-09	2.52E-08	1.55E-10	9.38E-10	5.51E-10	1.64E-09
284	577371.3	4194122	2.28E-08	7.69E-08	6.00E-08	0.00E+00	1.60E-07	3.56E-09	1.24E-08	9.47E-09	2.54E-08	1.56E-10	9.46E-10	5.56E-10	1.66E-09
285	577378.7	4194127	2.28E-08	7.69E-08	6.00E-08	0.00E+00	1.60E-07	3.56E-09	1.24E-08	9.47E-09	2.54E-08	1.56E-10	9.46E-10	5.56E-10	1.66E-09
286	577386.1	4194132	2.27E-08	7.63E-08	5.95E-08	0.00E+00	1.58E-07	3.53E-09	1.23E-08	9.40E-09	2.52E-08	1.55E-10	9.39E-10	5.51E-10	1.65E-09
287	577393.5	4194138	2.23E-08	7.52E-08	5.86E-08	0.00E+00	1.56E-07	3.48E-09	1.21E-08	9.26E-09	2.49E-08	1.53E-10	9.25E-10	5.43E-10	1.62E-09
288	577400.9	4194143	2.19E-08	7.36E-08	5.74E-08	0.00E+00	1.53E-07	3.41E-09	1.19E-08	9.07E-09	2.43E-08	1.50E-10	9.06E-10	5.32E-10	1.59E-09
289	577408.3	4194148	2.13E-08	7.17E-08	5.59E-08	0.00E+00	1.49E-07	3.32E-09	1.16E-08	8.83E-09	2.37E-08	1.46E-10	8.82E-10	5.18E-10	1.55E-09
290	577415.7	4194154	2.07E-08	6.96E-08	5.43E-08	0.00E+00	1.45E-07	3.22E-09	1.12E-08	8.57E-09	2.30E-08	1.41E-10	8.56E-10	5.03E-10	1.50E-09
291	577423.1	4194159	2.00E-08	6.74E-08	5.26E-08	0.00E+00	1.40E-07	3.12E-09	1.09E-08	8.30E-09	2.23E-08	1.37E-10	8.29E-10	4.87E-10	1.45E-09
292	577430.5	4194164	1.94E-08	6.52E-08	5.09E-08	0.00E+00	1.35E-07	3.02E-09	1.05E-08	8.03E-09	2.16E-08	1.32E-10	8.02E-10	4.71E-10	1.41E-09
293	577437.9	4194170	1.87E-08	6.29E-08	4.91E-08	0.00E+00	1.31E-07	2.91E-09	1.01E-08	7.75E-09	2.08E-08	1.28E-10	7.74E-10	4.55E-10	1.36E-09
294	577445.3	4194175	1.80E-08	6.06E-08	4.72E-08	0.00E+00	1.26E-07	2.80E-09	9.76E-09	7.46E-09	2.00E-08	1.23E-10	7.45E-10	4.38E-10	1.31E-09
295	577452.7	4194180	1.73E-08	5.82E-08	4.54E-08	0.00E+00	1.21E-07	2.69E-09	9.38E-09	7.17E-09	1.93E-08	1.18E-10	7.16E-10	4.21E-10	1.26E-09
296	577464.9	4194213	1.78E-08	5.98E-08	4.67E-08	0.00E+00	1.24E-07	2.77E-09	9.64E-09	7.37E-09	1.98E-08	1.22E-10	7.36E-10	4.32E-10	1.29E-09
297	577466.5	4194222	1.81E-08	6.08E-08	4.74E-08	0.00E+00	1.26E-07	2.81E-09	9.80E-09	7.49E-09	2.01E-08	1.24E-10	7.48E-10	4.39E-10	1.31E-09
298	577468.1	4194231	1.83E-08	6.15E-08	4.80E-08	0.00E+00	1.28E-07	2.85E-09	9.92E-09	7.58E-09	2.03E-08	1.25E-10	7.57E-10	4.45E-10	1.33E-09
299	577469.7	4194240	1.84E-08	6.19E-08	4.83E-08	0.00E+00	1.29E-07	2.87E-09	9.98E-09	7.63E-09	2.05E-08	1.26E-10	7.62E-10	4.48E-10	1.34E-09
300	577471.3	4194249	1.84E-08	6.20E-08	4.84E-08	0.00E+00	1.29E-07	2.87E-09	9.99E-09	7.63E-09	2.05E-08	1.26E-10	7.63E-10	4.48E-10	1.34E-09
301	577472.9	4194258	1.83E-08	6.16E-08	4.81E-08	0.00E+00	1.28E-07	2.85E-09	9.94E-09	7.59E-09	2.04E-08	1.25E-10	7.59E-10	4.46E-10	1.33E-09
302	577474.5	4194267	1.81E-08	6.09E-08	4.75E-08	0.00E+00	1.27E-07	2.82E-09	9.82E-09	7.50E-09	2.01E-08	1.24E-10	7.50E-10	4.40E-10	1.31E-09
303	577476.1	4194275	1.78E-08	5.98E-08	4.66E-08	0.00E+00	1.24E-07	2.77E-09	9.64E-09	7.37E-09	1.98E-08	1.21E-10	7.36E-10	4.32E-10	1.29E-09
304	577477.7	4194284	1.73E-08	5.83E-08	4.55E-08	0.00E+00	1.21E-07	2.70E-09	9.40E-09	7.18E-09	1.93E-08	1.18E-10	7.18E-10	4.21E-10	1.26E-09
305	577479.3	4194293	1.68E-08	5.65E-08	4.41E-08	0.00E+00	1.17E-07	2.61E-09	9.11E-09	6.96E-09	1.87E-08	1.15E-10	6.95E-10	4.08E-10	1.22E-09
306	577480.9	4194302	1.62E-08	5.44E-08	4.24E-08	0.00E+00	1.13E-07	2.52E-09	8.77E-09	6.70E-09	1.80E-08	1.11E-10	6.70E-10	3.93E-10	1.17E-09
307	577356.5	4194111	2.22E-08	7.48E-08	5.84E-08	0.00E+00	1.55E-07	3.46E-09	1.21E-08	9.21E-09	2.47E-08	1.52E-10	9.21E-10	5.41E-10	1.61E-09
308	577347.4	4194109	2.24E-08	7.55E-08	5.89E-08	0.00E+00	1.57E-07	3.49E-09	1.22E-08	9.30E-09	2.50E-08	1.53E-10	9.29E-10	5.46E-10	1.63E-09
309	577338.4	4194107	2.25E-08	7.56E-08	5.90E-08	0.00E+00	1.57E-07	3.50E-09	1.22E-08	9.31E-09	2.50E-08	1.54E-10	9.30E-10	5.46E-10	1.63E-09
310	577329.4	4194104	2.23E-08	7.51E-08	5.86E-08	0.00E+00	1.56E-07	3.48E-09	1.21E-08	9.25E-09	2.48E-08	1.53E-10	9.24E-10	5.43E-10	1.62E-09
311	577320.3	4194102	2.20E-08	7.40E-08	5.78E-08	0.00E+00	1.54E-07	3.43E-09	1.19E-08	9.12E-09	2.45E-08	1.50E-10	9.11E-10	5.35E-10	1.60E-09
312	577311.3	4194100	2.15E-08	7.25E-08	5.65E-08	0.00E+00	1.51E-07	3.36E-09	1.17E-08	8.93E-09	2.40E-08	1.47E-10	8.92E-10	5.24E-10	1.56E-09
313	577366.2	4194107	2.05E-08	6.89E-08	5.38E-08	0.00E+00	1.43E-07	3.19E-09	1.11E-08	8.49E-09	2.28E-08	1.40E-10	8.48E-10	4.98E-10	1.49E-09
314	577373.5	4194112	2.07E-08	6.97E-08	5.44E-08	0.00E+00	1.45E-07	3.23E-09	1.12E-08	8.59E-09	2.31E-08	1.42E-10	8.58E-10	5.04E-10	1.50E-09
315	577380.8	4194117	2.08E-08	6.99E-08	5.45E-08	0.00E+00	1.45E-07	3.24E-09	1.13E-08	8.61E-09	2.31E-08	1.42E-10	8.60E-10	5.05E-10	1.51E-09
316	577388.1	4194122	2.07E-08	6.96E-08	5.43E-08	0.00E+00	1.45E-07	3.22E-09	1.12E-08	8.57E-09	2.30E-08	1.41E-10	8.56E-10	5.03E-10	1.50E-09
317	577395.4	4194128	2.04E-08	6.88E-08	5.37E-08	0.00E+00	1.43E-07	3.19E-09	1.11E-08	8.48E-09	2.28E-08	1.40E-10	8.47E-10	4.97E-10	1.48E-09
318	577402.7	4194133	2.01E-08	6.77E-08	5.28E-08	0.00E+00	1.41E-07	3.13E-09	1.09E-08	8.34E-09	2.24E-08	1.37E-10	8.33E-10	4.89E-10	1.46E-09
319	577410.1	4194138	1.97E-08	6.61E-08	5.16E-08	0.00E+00	1.37E-07	3.06E-09	1.07E-08	8.15E-09	2.19E-08	1.34E-10	8.14E-10	4.78E-10	1.43E-09
320	577417.4	4194143	1.91E-08	6.44E-08	5.02E-08	0.00E+00	1.34E-07	2.98E-09	1.04E-08	7.93E-09	2.13E-08	1.31E-10	7.93E-10	4.65E-10	1.39E-09
321	577424.7	4194149	1.86E-08	6.26E-08	4.88E-08	0.00E+00	1.30E-07	2.90E-09	1.01E-08	7.71E-09	2.07E-08	1.27E-10	7.70E-10	4.52E-10	1.35E-09
322	577432	4194154	1.80E-08	6.07E-08	4.73E-08	0.00E+00	1.26E-07	2.81E-09	9.78E-09	7.47E-09	2.01E-08	1.23E-10	7.47E-10	4.38E-10	1.31E-09
323	577439.3	4194159	1.74E-08	5.87E-08	4.58E-08	0.00E+00	1.22E-07	2.72E-09	9.46E-09	7.23E-09	1.94E-08	1.19E-10	7.22E-10	4.24E-10	1.27E-09
324	577446.6	4194165	1.68E-08	5.67E-08	4.42E-08	0.00E+00	1.18E-07	2.62E-09	9.14E-09	6.98E-09	1.88E-08	1.15E-10	6.98E-10	4.10E-10	1.22E-09

325	577454	4194170	1.62E-08	5.47E-08	4.27E-08	0.00E+00	1.14E-07	2.53E-09	8.82E-09	6.74E-09	1.81E-08	1.11E-10	6.73E-10	3.95E-10	1.18E-09
326	577461.3	4194175	1.57E-08	5.27E-08	4.11E-08	0.00E+00	1.09E-07	2.44E-09	8.49E-09	6.49E-09	1.74E-08	1.07E-10	6.48E-10	3.81E-10	1.14E-09
327	577476.5	4194225	1.66E-08	5.57E-08	4.35E-08	0.00E+00	1.16E-07	2.58E-09	8.99E-09	6.87E-09	1.84E-08	1.13E-10	6.86E-10	4.03E-10	1.20E-09
328	577479.7	4194242	1.67E-08	5.64E-08	4.40E-08	0.00E+00	1.17E-07	2.61E-09	9.09E-09	6.94E-09	1.86E-08	1.15E-10	6.94E-10	4.07E-10	1.22E-09
329	577482.8	4194260	1.66E-08	5.58E-08	4.35E-08	0.00E+00	1.16E-07	2.58E-09	9.00E-09	6.88E-09	1.85E-08	1.13E-10	6.87E-10	4.03E-10	1.20E-09
330	577486	4194278	1.60E-08	5.40E-08	4.21E-08	0.00E+00	1.12E-07	2.50E-09	8.70E-09	6.65E-09	1.78E-08	1.10E-10	6.64E-10	3.90E-10	1.16E-09
331	577489.1	4194296	1.51E-08	5.09E-08	3.97E-08	0.00E+00	1.06E-07	2.36E-09	8.21E-09	6.27E-09	1.68E-08	1.03E-10	6.27E-10	3.68E-10	1.10E-09
332	577358.8	4194101	2.01E-08	6.76E-08	5.27E-08	0.00E+00	1.40E-07	3.13E-09	1.09E-08	8.32E-09	2.23E-08	1.37E-10	8.31E-10	4.88E-10	1.46E-09
333	577349.8	4194099	2.02E-08	6.80E-08	5.31E-08	0.00E+00	1.41E-07	3.15E-09	1.10E-08	8.38E-09	2.25E-08	1.38E-10	8.37E-10	4.92E-10	1.47E-09
334	577340.8	4194097	2.02E-08	6.80E-08	5.30E-08	0.00E+00	1.41E-07	3.15E-09	1.10E-08	8.37E-09	2.25E-08	1.38E-10	8.37E-10	4.91E-10	1.47E-09
335	577331.7	4194095	2.00E-08	6.74E-08	5.26E-08	0.00E+00	1.40E-07	3.12E-09	1.09E-08	8.31E-09	2.23E-08	1.37E-10	8.30E-10	4.87E-10	1.45E-09
336	577322.7	4194092	1.97E-08	6.64E-08	5.18E-08	0.00E+00	1.38E-07	3.08E-09	1.07E-08	8.18E-09	2.20E-08	1.35E-10	8.18E-10	4.80E-10	1.43E-09
337	577313.7	4194090	1.93E-08	6.50E-08	5.07E-08	0.00E+00	1.35E-07	3.01E-09	1.05E-08	8.01E-09	2.15E-08	1.32E-10	8.00E-10	4.70E-10	1.40E-09
338	577368.4	4194097	1.86E-08	6.25E-08	4.88E-08	0.00E+00	1.30E-07	2.90E-09	1.01E-08	7.70E-09	2.07E-08	1.27E-10	7.70E-10	4.52E-10	1.35E-09
339	577382.9	4194107	1.89E-08	6.38E-08	4.97E-08	0.00E+00	1.32E-07	2.95E-09	1.03E-08	7.85E-09	2.11E-08	1.30E-10	7.85E-10	4.61E-10	1.38E-09
340	577397.4	4194118	1.87E-08	6.31E-08	4.92E-08	0.00E+00	1.31E-07	2.92E-09	1.02E-08	7.77E-09	2.09E-08	1.28E-10	7.77E-10	4.56E-10	1.36E-09
341	577411.9	4194128	1.81E-08	6.10E-08	4.76E-08	0.00E+00	1.27E-07	2.83E-09	9.84E-09	7.52E-09	2.02E-08	1.24E-10	7.51E-10	4.41E-10	1.32E-09
342	577426.4	4194139	1.73E-08	5.81E-08	4.53E-08	0.00E+00	1.21E-07	2.69E-09	9.37E-09	7.16E-09	1.92E-08	1.18E-10	7.15E-10	4.20E-10	1.25E-09
343	577440.9	4194149	1.63E-08	5.48E-08	4.28E-08	0.00E+00	1.14E-07	2.54E-09	8.84E-09	6.75E-09	1.81E-08	1.11E-10	6.75E-10	3.96E-10	1.18E-09
344	577455.3	4194159	1.53E-08	5.14E-08	4.01E-08	0.00E+00	1.07E-07	2.38E-09	8.28E-09	6.33E-09	1.70E-08	1.04E-10	6.32E-10	3.71E-10	1.11E-09
345	577469.8	4194170	1.42E-08	4.79E-08	3.74E-08	0.00E+00	9.95E-08	2.22E-09	7.73E-09	5.90E-09	1.58E-08	9.74E-11	5.90E-10	3.46E-10	1.03E-09
346	577478.6	4194184	1.41E-08	4.73E-08	3.69E-08	0.00E+00	9.83E-08	2.19E-09	7.63E-09	5.83E-09	1.56E-08	9.61E-11	5.82E-10	3.42E-10	1.02E-09
347	577486.4	4194228	1.52E-08	5.12E-08	3.99E-08	0.00E+00	1.06E-07	2.37E-09	8.25E-09	6.30E-09	1.69E-08	1.04E-10	6.30E-10	3.70E-10	1.10E-09
348	577489.6	4194245	1.53E-08	5.14E-08	4.01E-08	0.00E+00	1.07E-07	2.38E-09	8.29E-09	6.34E-09	1.70E-08	1.05E-10	6.33E-10	3.72E-10	1.11E-09
349	577492.7	4194263	1.51E-08	5.07E-08	3.96E-08	0.00E+00	1.05E-07	2.35E-09	8.17E-09	6.25E-09	1.68E-08	1.03E-10	6.24E-10	3.66E-10	1.09E-09
350	577494.3	4194272	1.48E-08	4.99E-08	3.89E-08	0.00E+00	1.04E-07	2.31E-09	8.05E-09	6.15E-09	1.65E-08	1.01E-10	6.14E-10	3.61E-10	1.08E-09
351	577497.4	4194289	1.41E-08	4.76E-08	3.72E-08	0.00E+00	9.89E-08	2.20E-09	7.68E-09	5.87E-09	1.57E-08	9.68E-11	5.86E-10	3.44E-10	1.03E-09
352	577500.5	4194307	1.32E-08	4.45E-08	3.47E-08	0.00E+00	9.25E-08	2.06E-09	7.18E-09	5.49E-09	1.47E-08	9.05E-11	5.48E-10	3.22E-10	9.60E-10
353	577352.2	4194089	1.83E-08	6.15E-08	4.80E-08	0.00E+00	1.28E-07	2.85E-09	9.92E-09	7.58E-09	2.04E-08	1.25E-10	7.58E-10	4.45E-10	1.33E-09
354	577343.1	4194087	1.83E-08	6.14E-08	4.79E-08	0.00E+00	1.28E-07	2.84E-09	9.90E-09	7.57E-09	2.03E-08	1.25E-10	7.56E-10	4.44E-10	1.32E-09
355	577334.1	4194085	1.81E-08	6.09E-08	4.75E-08	0.00E+00	1.26E-07	2.82E-09	9.81E-09	7.50E-09	2.01E-08	1.24E-10	7.49E-10	4.40E-10	1.31E-09
356	577325.1	4194083	1.78E-08	5.99E-08	4.67E-08	0.00E+00	1.24E-07	2.77E-09	9.66E-09	7.38E-09	1.98E-08	1.22E-10	7.37E-10	4.33E-10	1.29E-09
357	577316	4194081	1.74E-08	5.86E-08	4.57E-08	0.00E+00	1.22E-07	2.71E-09	9.45E-09	7.22E-09	1.94E-08	1.19E-10	7.22E-10	4.24E-10	1.26E-09
358	577370.8	4194087	1.69E-08	5.69E-08	4.44E-08	0.00E+00	1.18E-07	2.63E-09	9.18E-09	7.01E-09	1.88E-08	1.16E-10	7.00E-10	4.11E-10	1.23E-09
359	577385.1	4194097	1.73E-08	5.83E-08	4.55E-08	0.00E+00	1.21E-07	2.70E-09	9.39E-09	7.18E-09	1.93E-08	1.18E-10	7.17E-10	4.21E-10	1.26E-09
360	577399.4	4194108	1.72E-08	5.80E-08	4.52E-08	0.00E+00	1.20E-07	2.68E-09	9.35E-09	7.14E-09	1.92E-08	1.18E-10	7.13E-10	4.19E-10	1.25E-09
361	577413.8	4194118	1.68E-08	5.64E-08	4.40E-08	0.00E+00	1.17E-07	2.61E-09	9.10E-09	6.95E-09	1.87E-08	1.15E-10	6.94E-10	4.08E-10	1.22E-09
362	577428.1	4194128	1.61E-08	5.40E-08	4.21E-08	0.00E+00	1.12E-07	2.50E-09	8.71E-09	6.65E-09	1.79E-08	1.10E-10	6.65E-10	3.90E-10	1.17E-09
363	577442.5	4194139	1.52E-08	5.12E-08	4.00E-08	0.00E+00	1.06E-07	2.37E-09	8.26E-09	6.31E-09	1.69E-08	1.04E-10	6.30E-10	3.70E-10	1.10E-09
364	577456.8	4194149	1.43E-08	4.82E-08	3.76E-08	0.00E+00	1.00E-07	2.23E-09	7.78E-09	5.94E-09	1.60E-08	9.80E-11	5.94E-10	3.49E-10	1.04E-09
365	577471.2	4194159	1.35E-08	4.53E-08	3.53E-08	0.00E+00	9.40E-08	2.10E-09	7.30E-09	5.58E-09	1.50E-08	9.20E-11	5.57E-10	3.27E-10	9.76E-10
366	577487.1	4194178	1.28E-08	4.32E-08	3.37E-08	0.00E+00	8.98E-08	2.00E-09	6.97E-09	5.33E-09	1.43E-08	8.79E-11	5.32E-10	3.13E-10	9.33E-10
367	577496.4	4194231	1.40E-08	4.70E-08	3.67E-08	0.00E+00	9.77E-08	2.18E-09	7.59E-09	5.80E-09	1.56E-08	9.56E-11	5.79E-10	3.40E-10	1.01E-09
368	577499.5	4194248	1.40E-08	4.71E-08	3.67E-08	0.00E+00	9.78E-08	2.18E-09	7.59E-09	5.80E-09	1.56E-08	9.56E-11	5.79E-10	3.40E-10	1.02E-09
369	577502.6	4194265	1.37E-08	4.62E-08	3.60E-08	0.00E+00	9.60E-08	2.14E-09	7.45E-09	5.69E-09	1.53E-08	9.39E-11	5.69E-10	3.34E-10	9.97E-10
370	577505.7	4194283	1.32E-08	4.45E-08	3.47E-08	0.00E+00	9.24E-08	2.06E-09	7.17E-09	5.48E-09	1.47E-08	9.04E-11	5.47E-10	3.21E-10	9.59E-10
371	577508.8	4194300	1.25E-08	4.20E-08	3.28E-08	0.00E+00	8.73E-08	1.95E-09	6.78E-09	5.18E-09	1.39E-08	8.54E-11	5.17E-10	3.04E-10	9.06E-10
372	577354.5	4194080	1.66E-08	5.59E-08	4.36E-08	0.00E+00	1.16E-07	2.59E-09	9.01E-09	6.89E-09	1.85E-08	1.14E-10	6.88E-10	4.04E-10	1.21E-09
373	577345.5	4194077	1.66E-08	5.57E-08	4.35E-08	0.00E+00	1.16E-07	2.58E-09	8.98E-09	6.86E-09	1.84E-08	1.13E-10	6.86E-10	4.03E-10	1.20E-09
374	577336.5	4194075	1.64E-08	5.51E-08	4.30E-08	0.00E+00	1.15E-07	2.55E-09	8.89E-09	6.79E-09	1.82E-08	1.12E-10	6.79E-10	3.99E-10	1.19E-09
375	577327.4	4194073	1.61E-08	5.43E-08	4.23E-08	0.00E+00	1.13E-07	2.51E-09	8.75E-09	6.68E-09	1.79E-08	1.10E-10	6.68E-10	3.92E-10	1.17E-09
376	577318.4	4194071	1.58E-08	5.32E-08	4.15E-08	0.00E+00	1.10E-07	2.46E-09	8.57E-09	6.55E-09	1.76E-08	1.08E-10	6.54E-10	3.84E-10	1.15E-09
377	577373.5	4194078	1.55E-08	5.20E-08	4.06E-08	0.00E+00	1.08E-07	2.41E-09	8.39E-09	6.41E-09	1.72E-08	1.06E-10	6.40E-10	3.76E-10	1.12E-09
378	577381	4194083	1.57E-08	5.29E-08	4.13E-08	0.00E+00	1.10E-07	2.45E-09	8.53E-09	6.52E-09	1.75E-08	1.08E-10	6.51E-10	3.83E-10	1.14E-09
379	577388.5	4194088	1.59E-08	5.34E-08	4.17E-08	0.00E+00	1.11E-07	2.47E-09	8.62E-09	6.58E-09	1.77E-08	1.09E-10	6.58E-10	3.86E-10	1.15E-09
380	577396.1	4194094	1.59E-08	5.36E-08	4.18E-08	0.00E+00	1.11E-07	2.48E-09	8.64E-09	6.60E-09	1.77E-08	1.09E-10	6.59E-10	3.87E-10	1.16E-09
381	577403.6	4194099	1.58E-08	5.33E-08	4.16E-08	0.00E+00	1.11E-07	2.47E-09	8.59E-09	6.57E-09	1.76E-08	1.08E-10	6.56E-10	3.85E-10	1.15E-09
382	577411.1	4194105	1.57E-08	5.27E-08	4.11E-08	0.00E+00	1.09E-07	2.44E-09	8.50E-09	6.49E-09	1.74E-08	1.07E-10	6.49E-10	3.81E-10	1.14E-09
383	577418.7	4194110	1.54E-08	5.19E-08	4.05E-08	0.00E+00	1.08E-07	2.40E-09	8.36E-09	6.39E-09	1.72E-08	1.05E-10	6.38E-10	3.75E-10	1.12E-09
384	577426.2	4194116	1.51E-08	5.08E-08	3.97E-08	0.00E+00	1.06E-07	2.35E-09	8.20E-09	6.26E-09	1.68E-08	1.03E-10	6.26E-10	3.67E-10	1.10E-09
385	577433.7	4194121	1.48E-08	4.97E-08	3.88E-08	0.00E+00	1.03E-07	2.30E-09	8.01E-09	6.12E-09	1.64E-08	1.01E-10	6.11E-10	3.59E-10	1.07E-09
386	577441.3	4194126	1.44E-08	4.84E-08	3.78E-08	0.00E+00	1.01E-07	2.24E-09	7.81E-09	5.96E-09	1.60E-08	9.84E-11	5.96E-10	3.50E-10	1.04E-09
387	577448.8	4194132	1.40E-08	4.71E-08	3.67E-08	0.00E+00	9.78E-08	2.18E-09	7.59E-09	5.80E-09	1.56E-08	9.57E-11	5.80E-10	3.40E-10	1.02E-09
388	577456.3	4194137	1.36E-08	4.57E-08	3.57E-08	0.00E+00	9.50E-08	2.12E-09	7.37E-09	5.63E-09	1.51E-08	9.29E-11	5.63E-10	3.30E-10	9.86E-10
389	577463.9	4194143	1.32E-08	4.43E-08	3.46E-08	0.00E+00	9.21E-08	2.05E-09	7.15E-09	5.46E-09	1.47E-08	9.01E-11	5.46E-10	3.20E-10	9.56E-10
390	577471.4	4194148	1.28E-08	4.30E-08	3.35E-08	0.00E+00	8.93E-08	1.99E-09	6.93E-09	5.29E-09	1.42E-08	8.73E-11	5.29E-10	3.11E-10	9.27E-10
391	577478.9	4194154	1.24E-08	4.16E-08	3.25E-08	0.00E+00	8.64E-08	1.93E-09	6.71E-09	5.13E-09	1.38E-08	8.46E-11	5.12E-10	3.01E-10	8.98E-10
392	577486.4	4194159	1.20E-08	4.02E-08	3.14E-08	0.00E+00	8.36E-08	1.86E-09	6.49E-09	4.96E-09	1.33E-08	8.18E-11	4.95E-10	2.91E-10	8.68E-10
393	577495.6	4194174	1.18E-08	3.97E-08	3.10E-08	0.00E+00	8.25E-08	1.84E-09	6.40E-09	4.89E-09	1.31E-08	8.07E-11	4.89E-10	2.87E-10	8.57E-10
394	577497.2	4194183	1.20E-08	4.05E-08	3.16E-08	0.00E+00	8.42E-08	1.88E-09	6.54E-09	4.99E-09	1.34E-08	8.24E-11	4.99E-10	2.93E-10	8.74E-10
395	577498.9	4194192	1.23E-08	4.13E-08	3.22E-08	0.00E+00	8.58E-08	1.91E-09	6.66E-09	5.09E-09	1.37E-08	8.39E-11	5.08E-10	2.98E-10	8.90E-10
396	577503.7	4194219	1.28E-08	4.30E-08	3.35E-08	0.00E+00	8.93E-08	1.99E-09	6.93E-09	5.29E-09	1.42E-08	8.73E-11	5.29E-10	3.11E-10	9.27E-10
397	577505.4	4194228	1.29E-08	4.32E-08	3.37E-08	0.00E+00	8.98E-08	2.00E-09	6.97E-09	5.33E-09	1.43E-08	8.79E-11	5.32E-10	3.13E-10	9.33E-10
398	577507	4194237	1.29E-08	4.34E-08	3.38E-08	0.00E+00	9.01E-08	2.01E-09	6.99E-09	5.34E-09	1.43E-08	8.81E-11	5.34E-10	3.13E-10	9.35E-10
399	577508.6	4194247	1.29E-08	4.33E-08	3.38E-08	0.00E+00	8.99E-08	2.00E-09	6.98E-09	5.33E-09	1.43E-08	8.79E-11	5.32E-10	3.13E-10	9.33E-10
400	577510.3	4194256	1.28E-08	4.30E-08	3.35E-08	0.00E+00	8.93E-08	1.99E-09	6.93E-09	5.29E-09	1.42E-08	8.73E-11	5.29E-10	3.11E-10	9.27E-10
401	577511.9	4194265	1.26E-08	4.25E-08	3.31E-08	0.00E+00	8.82E-08	1.97E-09	6.85E-09	5.23E-09	1.40E-08	8.63E-11	5.23E-10	3.07E-10	9.16E-10
402	577513.5	4194274	1.24E-08	4.17E-08	3.26E-08	0.00E+00	8.67E-08	1.93E-09	6.73E-09	5.14E-09	1.38E-08	8.48E-11	5.14E-10	3.02E-10	9.00E-10
403	577515.1	4194283	1.21E-08	4.08E-08	3.19E-08	0.00E+00	8.48E-08	1.89E-09	6.58E-09	5.03E-09	1.35E-08	8.30E-11	5.03E-10	2.95E-10	8.81E-10
404	577516.8	4194292	1.18E-08	3.98E-08	3.10E-08	0.00E+00	8.26E-08	1.84E-09	6.41E-09	4.90E-09	1.31E-08	8.08E-11	4.89E-10	2.87E-10	8.57E-10
405	577518.4	4194301	1.14E-08	3.85E-08	3.01E-08	0.00E+00	8.00E-08	1.78E-09	6.21E-09	4.75E-09	1.27E-08	7.83E-11	4.74E-10	2.79E-10	8.31E-10
406	577520	4194311	1.10E-08	3.72E-08	2.90E-08	0.00E+00	7.72E-08	1.72E-09	5.99E-09	4.58E-09	1.23E-08	7.55E-11	4.58E-10	2.69E-10	8.02E-10

407	577365.9	4194072	1.51E-08	5.08E-08	3.97E-08	0.00E+00	1.06E-07	2.35E-09	8.19E-09	6.26E-09	1.68E-08	1.03E-10	6.25E-10	3.67E-10	1.10E-09
408	577356.9	4194070	1.51E-08	5.09E-08	3.97E-08	0.00E+00	1.06E-07	2.36E-09	8.21E-09	6.27E-09	1.68E-08	1.03E-10	6.27E-10	3.68E-10	1.10E-09
409	577347.9	4194068	1.51E-08	5.07E-08	3.95E-08	0.00E+00	1.05E-07	2.35E-09	8.17E-09	6.24E-09	1.68E-08	1.03E-10	6.24E-10	3.66E-10	1.09E-09
410	577338.8	4194066	1.49E-08	5.01E-08	3.91E-08	0.00E+00	1.04E-07	2.32E-09	8.08E-09	6.18E-09	1.66E-08	1.02E-10	6.17E-10	3.62E-10	1.08E-09
411	577329.8	4194063	1.47E-08	4.94E-08	3.85E-08	0.00E+00	1.03E-07	2.28E-09	7.96E-09	6.08E-09	1.63E-08	1.00E-10	6.07E-10	3.57E-10	1.06E-09
412	577320.8	4194061	1.44E-08	4.84E-08	3.78E-08	0.00E+00	1.01E-07	2.24E-09	7.80E-09	5.96E-09	1.60E-08	9.83E-11	5.96E-10	3.50E-10	1.04E-09
413	577375.8	4194068	1.42E-08	4.77E-08	3.72E-08	0.00E+00	9.91E-08	2.21E-09	7.69E-09	5.87E-09	1.58E-08	9.69E-11	5.87E-10	3.45E-10	1.03E-09
414	577383.2	4194073	1.44E-08	4.86E-08	3.79E-08	0.00E+00	1.01E-07	2.25E-09	7.83E-09	5.98E-09	1.61E-08	9.87E-11	5.98E-10	3.51E-10	1.05E-09
415	577390.7	4194079	1.46E-08	4.91E-08	3.83E-08	0.00E+00	1.02E-07	2.27E-09	7.92E-09	6.05E-09	1.62E-08	9.98E-11	6.05E-10	3.55E-10	1.06E-09
416	577398.1	4194084	1.47E-08	4.94E-08	3.85E-08	0.00E+00	1.03E-07	2.29E-09	7.96E-09	6.08E-09	1.63E-08	1.00E-10	6.08E-10	3.57E-10	1.06E-09
417	577405.6	4194089	1.46E-08	4.93E-08	3.84E-08	0.00E+00	1.02E-07	2.28E-09	7.94E-09	6.07E-09	1.63E-08	1.00E-10	6.06E-10	3.56E-10	1.06E-09
418	577413	4194095	1.45E-08	4.88E-08	3.81E-08	0.00E+00	1.01E-07	2.26E-09	7.88E-09	6.02E-09	1.62E-08	9.93E-11	6.01E-10	3.53E-10	1.05E-09
419	577420.5	4194100	1.43E-08	4.82E-08	3.76E-08	0.00E+00	1.00E-07	2.23E-09	7.77E-09	5.94E-09	1.59E-08	9.79E-11	5.93E-10	3.48E-10	1.04E-09
420	577427.9	4194105	1.41E-08	4.73E-08	3.69E-08	0.00E+00	9.83E-08	2.19E-09	7.63E-09	5.83E-09	1.57E-08	9.62E-11	5.83E-10	3.42E-10	1.02E-09
421	577435.4	4194111	1.38E-08	4.64E-08	3.62E-08	0.00E+00	9.63E-08	2.15E-09	7.48E-09	5.71E-09	1.53E-08	9.42E-11	5.71E-10	3.35E-10	1.00E-09
422	577442.8	4194116	1.35E-08	4.53E-08	3.54E-08	0.00E+00	9.41E-08	2.10E-09	7.31E-09	5.58E-09	1.50E-08	9.21E-11	5.58E-10	3.28E-10	9.77E-10
423	577450.3	4194121	1.31E-08	4.42E-08	3.45E-08	0.00E+00	9.18E-08	2.05E-09	7.12E-09	5.44E-09	1.46E-08	8.98E-11	5.44E-10	3.19E-10	9.53E-10
424	577457.7	4194127	1.28E-08	4.30E-08	3.36E-08	0.00E+00	8.94E-08	1.99E-09	6.93E-09	5.30E-09	1.42E-08	8.74E-11	5.29E-10	3.11E-10	9.28E-10
425	577465.2	4194132	1.24E-08	4.18E-08	3.26E-08	0.00E+00	8.69E-08	1.94E-09	6.74E-09	5.15E-09	1.38E-08	8.50E-11	5.15E-10	3.02E-10	9.02E-10
426	577472.6	4194138	1.21E-08	4.06E-08	3.17E-08	0.00E+00	8.44E-08	1.88E-09	6.55E-09	5.01E-09	1.34E-08	8.26E-11	5.00E-10	2.94E-10	8.76E-10
427	577480.1	4194143	1.17E-08	3.94E-08	3.08E-08	0.00E+00	8.19E-08	1.83E-09	6.36E-09	4.86E-09	1.30E-08	8.01E-11	4.85E-10	2.85E-10	8.51E-10
428	577487.5	4194148	1.14E-08	3.82E-08	2.98E-08	0.00E+00	7.94E-08	1.77E-09	6.16E-09	4.71E-09	1.26E-08	7.77E-11	4.70E-10	2.76E-10	8.24E-10
429	577495	4194154	1.10E-08	3.70E-08	2.89E-08	0.00E+00	7.69E-08	1.71E-09	5.97E-09	4.56E-09	1.22E-08	7.52E-11	4.55E-10	2.67E-10	7.98E-10
430	577504.1	4194168	1.09E-08	3.65E-08	2.85E-08	0.00E+00	7.59E-08	1.69E-09	5.89E-09	4.50E-09	1.21E-08	7.43E-11	4.50E-10	2.64E-10	7.88E-10
431	577505.7	4194177	1.11E-08	3.73E-08	2.91E-08	0.00E+00	7.74E-08	1.73E-09	6.01E-09	4.59E-09	1.23E-08	7.57E-11	4.59E-10	2.69E-10	8.04E-10
432	577507.3	4194186	1.13E-08	3.79E-08	2.96E-08	0.00E+00	7.88E-08	1.76E-09	6.12E-09	4.67E-09	1.25E-08	7.71E-11	4.67E-10	2.74E-10	8.18E-10
433	577513.7	4194222	1.18E-08	3.98E-08	3.11E-08	0.00E+00	8.27E-08	1.84E-09	6.42E-09	4.90E-09	1.32E-08	8.09E-11	4.90E-10	2.88E-10	8.58E-10
434	577515.3	4194231	1.19E-08	4.00E-08	3.12E-08	0.00E+00	8.30E-08	1.85E-09	6.44E-09	4.92E-09	1.32E-08	8.12E-11	4.92E-10	2.89E-10	8.62E-10
435	577516.9	4194240	1.19E-08	4.00E-08	3.12E-08	0.00E+00	8.30E-08	1.85E-09	6.44E-09	4.92E-09	1.32E-08	8.12E-11	4.92E-10	2.89E-10	8.62E-10
436	577518.5	4194249	1.18E-08	3.98E-08	3.11E-08	0.00E+00	8.27E-08	1.84E-09	6.42E-09	4.90E-09	1.32E-08	8.09E-11	4.90E-10	2.88E-10	8.58E-10
437	577520.2	4194258	1.17E-08	3.95E-08	3.08E-08	0.00E+00	8.20E-08	1.83E-09	6.36E-09	4.86E-09	1.30E-08	8.02E-11	4.86E-10	2.85E-10	8.51E-10
438	577521.8	4194268	1.16E-08	3.89E-08	3.04E-08	0.00E+00	8.09E-08	1.80E-09	6.28E-09	4.80E-09	1.29E-08	7.91E-11	4.79E-10	2.81E-10	8.40E-10
439	577523.4	4194277	1.14E-08	3.82E-08	2.98E-08	0.00E+00	7.94E-08	1.77E-09	6.17E-09	4.71E-09	1.26E-08	7.77E-11	4.71E-10	2.76E-10	8.25E-10
440	577525	4194286	1.11E-08	3.74E-08	2.92E-08	0.00E+00	7.77E-08	1.73E-09	6.03E-09	4.61E-09	1.24E-08	7.60E-11	4.60E-10	2.70E-10	8.07E-10
441	577526.6	4194295	1.08E-08	3.64E-08	2.84E-08	0.00E+00	7.57E-08	1.69E-09	5.87E-09	4.49E-09	1.20E-08	7.40E-11	4.48E-10	2.63E-10	7.86E-10
442	577528.2	4194304	1.05E-08	3.53E-08	2.75E-08	0.00E+00	7.33E-08	1.63E-09	5.69E-09	4.35E-09	1.17E-08	7.17E-11	4.34E-10	2.55E-10	7.61E-10
443	577368.3	4194062	1.38E-08	4.66E-08	3.63E-08	0.00E+00	9.67E-08	2.16E-09	7.51E-09	5.73E-09	1.54E-08	9.46E-11	5.73E-10	3.36E-10	1.00E-09
444	577359.3	4194060	1.38E-08	4.65E-08	3.63E-08	0.00E+00	9.67E-08	2.15E-09	7.50E-09	5.73E-09	1.54E-08	9.46E-11	5.73E-10	3.36E-10	1.00E-09
445	577350.2	4194058	1.37E-08	4.63E-08	3.61E-08	0.00E+00	9.61E-08	2.14E-09	7.46E-09	5.70E-09	1.53E-08	9.40E-11	5.69E-10	3.34E-10	9.98E-10
446	577341.2	4194056	1.36E-08	4.57E-08	3.57E-08	0.00E+00	9.50E-08	2.12E-09	7.37E-09	5.63E-09	1.51E-08	9.29E-11	5.63E-10	3.31E-10	9.86E-10
447	577332.2	4194054	1.34E-08	4.50E-08	3.51E-08	0.00E+00	9.36E-08	2.09E-09	7.26E-09	5.55E-09	1.49E-08	9.15E-11	5.54E-10	3.26E-10	9.71E-10
448	577323.1	4194051	1.31E-08	4.42E-08	3.45E-08	0.00E+00	9.18E-08	2.05E-09	7.13E-09	5.45E-09	1.46E-08	8.98E-11	5.44E-10	3.19E-10	9.53E-10
449	577378.1	4194058	1.30E-08	4.38E-08	3.42E-08	0.00E+00	9.11E-08	2.03E-09	7.07E-09	5.40E-09	1.45E-08	8.91E-11	5.40E-10	3.17E-10	9.45E-10
450	577385.4	4194063	1.33E-08	4.47E-08	3.49E-08	0.00E+00	9.28E-08	2.07E-09	7.20E-09	5.50E-09	1.48E-08	9.08E-11	5.50E-10	3.23E-10	9.63E-10
451	577392.8	4194069	1.34E-08	4.53E-08	3.53E-08	0.00E+00	9.40E-08	2.10E-09	7.30E-09	5.58E-09	1.50E-08	9.20E-11	5.57E-10	3.27E-10	9.76E-10
452	577400.2	4194074	1.35E-08	4.56E-08	3.56E-08	0.00E+00	9.47E-08	2.11E-09	7.35E-09	5.62E-09	1.51E-08	9.26E-11	5.61E-10	3.30E-10	9.83E-10
453	577407.6	4194079	1.36E-08	4.56E-08	3.56E-08	0.00E+00	9.48E-08	2.11E-09	7.35E-09	5.62E-09	1.51E-08	9.27E-11	5.61E-10	3.30E-10	9.84E-10
454	577415	4194085	1.35E-08	4.53E-08	3.54E-08	0.00E+00	9.42E-08	2.10E-09	7.31E-09	5.59E-09	1.50E-08	9.22E-11	5.58E-10	3.28E-10	9.78E-10
455	577422.3	4194090	1.33E-08	4.49E-08	3.50E-08	0.00E+00	9.32E-08	2.08E-09	7.23E-09	5.53E-09	1.48E-08	9.12E-11	5.52E-10	3.24E-10	9.68E-10
456	577429.7	4194095	1.31E-08	4.42E-08	3.45E-08	0.00E+00	9.18E-08	2.05E-09	7.13E-09	5.44E-09	1.46E-08	8.98E-11	5.44E-10	3.19E-10	9.53E-10
457	577437.1	4194101	1.29E-08	4.34E-08	3.38E-08	0.00E+00	9.01E-08	2.01E-09	6.99E-09	5.34E-09	1.43E-08	8.81E-11	5.34E-10	3.14E-10	9.36E-10
458	577444.5	4194106	1.26E-08	4.25E-08	3.31E-08	0.00E+00	8.82E-08	1.97E-09	6.85E-09	5.23E-09	1.40E-08	8.63E-11	5.23E-10	3.07E-10	9.16E-10
459	577451.9	4194111	1.23E-08	4.15E-08	3.24E-08	0.00E+00	8.62E-08	1.92E-09	6.69E-09	5.11E-09	1.37E-08	8.43E-11	5.11E-10	3.00E-10	8.95E-10
460	577459.2	4194117	1.20E-08	4.05E-08	3.16E-08	0.00E+00	8.41E-08	1.87E-09	6.53E-09	4.99E-09	1.34E-08	8.23E-11	4.98E-10	2.93E-10	8.73E-10
461	577466.6	4194122	1.17E-08	3.94E-08	3.08E-08	0.00E+00	8.19E-08	1.83E-09	6.36E-09	4.86E-09	1.30E-08	8.02E-11	4.86E-10	2.85E-10	8.51E-10
462	577474	4194127	1.14E-08	3.84E-08	3.00E-08	0.00E+00	7.98E-08	1.78E-09	6.20E-09	4.73E-09	1.27E-08	7.81E-11	4.73E-10	2.78E-10	8.29E-10
463	577481.4	4194132	1.11E-08	3.74E-08	2.92E-08	0.00E+00	7.76E-08	1.73E-09	6.03E-09	4.60E-09	1.24E-08	7.59E-11	4.60E-10	2.70E-10	8.06E-10
464	577488.8	4194138	1.08E-08	3.63E-08	2.83E-08	0.00E+00	7.54E-08	1.68E-09	5.85E-09	4.47E-09	1.20E-08	7.38E-11	4.47E-10	2.62E-10	7.83E-10
465	577496.2	4194143	1.05E-08	3.52E-08	2.75E-08	0.00E+00	7.32E-08	1.63E-09	5.68E-09	4.34E-09	1.16E-08	7.16E-11	4.33E-10	2.55E-10	7.60E-10
466	577503.5	4194148	1.01E-08	3.41E-08	2.66E-08	0.00E+00	7.09E-08	1.58E-09	5.50E-09	4.20E-09	1.13E-08	6.93E-11	4.20E-10	2.47E-10	7.36E-10
467	577512.5	4194163	1.00E-08	3.37E-08	2.63E-08	0.00E+00	7.01E-08	1.56E-09	5.44E-09	4.15E-09	1.12E-08	6.85E-11	4.15E-10	2.44E-10	7.27E-10
468	577515.7	4194181	1.04E-08	3.50E-08	2.73E-08	0.00E+00	7.26E-08	1.62E-09	5.64E-09	4.31E-09	1.16E-08	7.10E-11	4.30E-10	2.53E-10	7.54E-10
469	577517.3	4194190	1.06E-08	3.55E-08	2.77E-08	0.00E+00	7.38E-08	1.64E-09	5.73E-09	4.37E-09	1.17E-08	7.22E-11	4.37E-10	2.57E-10	7.66E-10
470	577525.3	4194234	1.10E-08	3.70E-08	2.89E-08	0.00E+00	7.68E-08	1.71E-09	5.96E-09	4.56E-09	1.22E-08	7.52E-11	4.55E-10	2.67E-10	7.98E-10
471	577526.9	4194243	1.10E-08	3.69E-08	2.88E-08	0.00E+00	7.68E-08	1.71E-09	5.96E-09	4.55E-09	1.22E-08	7.51E-11	4.55E-10	2.67E-10	7.97E-10
472	577528.5	4194252	1.09E-08	3.68E-08	2.87E-08	0.00E+00	7.64E-08	1.70E-09	5.93E-09	4.53E-09	1.22E-08	7.47E-11	4.52E-10	2.66E-10	7.93E-10
473	577530.1	4194261	1.08E-08	3.64E-08	2.84E-08	0.00E+00	7.56E-08	1.68E-09	5.87E-09	4.48E-09	1.20E-08	7.39E-11	4.48E-10	2.63E-10	7.85E-10
474	577531.6	4194270	1.07E-08	3.59E-08	2.80E-08	0.00E+00	7.45E-08	1.66E-09	5.78E-09	4.42E-09	1.19E-08	7.29E-11	4.41E-10	2.59E-10	7.73E-10
475	577534.8	4194288	1.02E-08	3.43E-08	2.68E-08	0.00E+00	7.13E-08	1.59E-09	5.54E-09	4.23E-09	1.14E-08	6.98E-11	4.23E-10	2.48E-10	7.41E-10
476	577536.4	4194297	9.92E-09	3.34E-08	2.60E-08	0.00E+00	6.93E-08	1.55E-09	5.38E-09	4.11E-09	1.10E-08	6.78E-11	4.11E-10	2.41E-10	7.20E-10
477	577538	4194306	9.59E-09	3.23E-08	2.52E-08	0.00E+00	6.70E-08	1.49E-09	5.20E-09	3.97E-09	1.07E-08	6.56E-11	3.97E-10	2.33E-10	6.96E-10
478	577539.6	4194315	9.22E-09	3.10E-08	2.42E-08	0.00E+00	6.45E-08	1.44E-09	5.00E-09	3.82E-09	1.03E-08	6.31E-11	3.82E-10	2.24E-10	6.69E-10
479	577370.7	4194053	1.27E-08	4.28E-08	3.34E-08	0.00E+00	8.88E-08	1.98E-09	6.90E-09	5.27E-09	1.41E-08	8.69E-11	5.26E-10	3.09E-10	9.22E-10
480	577361.6	4194051	1.27E-08	4.27E-08	3.33E-08	0.00E+00	8.87E-08	1.98E-09	6.88E-09	5.26E-09	1.41E-08	8.67E-11	5.25E-10	3.09E-10	9.21E-10
481	577352.6	4194048	1.26E-08	4.24E-08	3.31E-08	0.00E+00	8.80E-08	1.96E-09	6.83E-09	5.22E-09	1.40E-08	8.61E-11	5.22E-10	3.06E-10	9.14E-10
482	577343.6	4194046	1.24E-08	4.19E-08	3.27E-08	0.00E+00	8.70E-08	1.94E-09	6.75E-09	5.16E-09	1.38E-08	8.51E-11	5.15E-10	3.03E-10	9.03E-10
483	577334.5	4194044	1.23E-08	4.12E-08	3.22E-08	0.00E+00	8.57E-08	1.91E-09	6.65E-09	5.08E-09	1.36E-08	8.38E-11	5.08E-10	2.98E-10	8.90E-10
484	577325.5	4194042	1.20E-08	4.05E-08	3.16E-08	0.00E+00	8.41E-08	1.88E-09	6.53E-09	4.99E-09	1.34E-08	8.23E-11	4.99E-10	2.93E-10	8.74E-10
485	577380.4	4194048	1.20E-08	4.04E-08	3.15E-08	0.00E+00	8.39E-08	1.87E-09	6.51E-09	4.98E-09	1.34E-08	8.21E-11	4.97E-10	2.92E-10	8.71E-10
486	577387.7	4194054	1.22E-08	4.12E-08	3.21E-08	0.00E+00	8.56E-08	1.91E-09	6.64E-09	5.07E-09	1.36E-08	8.37E-11	5.07E-10	2.98E-10	8.88E-10
487	577395	4194059	1.24E-08	4.18E-08	3.26E-08	0.00E+00	8.68E-08	1.93E-09	6.74E-09	5.15E-09	1.38E-08	8.49E-11	5.14E-10	3.02E-10	9.01E-10
488	577402.3	4194064	1.25E-08	4.21E-08	3.29E-08	0.00E+00	8.76E-08	1.95E-09	6.80E-09	5.19E-09	1.39E-08	8.56E-11	5.19E-10	3.05E-10	9.09E-10

489	577409.6	4194069	1.26E-08	4.23E-08	3.30E-08	0.00E+00	8.78E-08	1.96E-09	6.82E-09	5.21E-09	1.40E-08	8.59E-11	5.20E-10	3.06E-10	9.12E-10
490	577416.9	4194075	1.25E-08	4.22E-08	3.29E-08	0.00E+00	8.76E-08	1.95E-09	6.80E-09	5.19E-09	1.39E-08	8.57E-11	5.19E-10	3.05E-10	9.09E-10
491	577424.3	4194080	1.24E-08	4.18E-08	3.26E-08	0.00E+00	8.69E-08	1.94E-09	6.74E-09	5.15E-09	1.38E-08	8.50E-11	5.15E-10	3.02E-10	9.02E-10
492	577431.6	4194085	1.23E-08	4.13E-08	3.22E-08	0.00E+00	8.58E-08	1.91E-09	6.66E-09	5.09E-09	1.37E-08	8.39E-11	5.08E-10	2.98E-10	8.91E-10
493	577438.9	4194090	1.21E-08	4.06E-08	3.17E-08	0.00E+00	8.44E-08	1.88E-09	6.55E-09	5.01E-09	1.34E-08	8.26E-11	5.00E-10	2.94E-10	8.76E-10
494	577446.2	4194096	1.18E-08	3.99E-08	3.11E-08	0.00E+00	8.28E-08	1.85E-09	6.43E-09	4.91E-09	1.32E-08	8.10E-11	4.91E-10	2.88E-10	8.60E-10
495	577453.5	4194101	1.16E-08	3.90E-08	3.04E-08	0.00E+00	8.11E-08	1.81E-09	6.29E-09	4.81E-09	1.29E-08	7.93E-11	4.80E-10	2.82E-10	8.42E-10
496	577460.8	4194106	1.13E-08	3.81E-08	2.97E-08	0.00E+00	7.92E-08	1.76E-09	6.15E-09	4.70E-09	1.26E-08	7.75E-11	4.69E-10	2.76E-10	8.22E-10
497	577468.2	4194112	1.11E-08	3.72E-08	2.91E-08	0.00E+00	7.73E-08	1.72E-09	6.00E-09	4.59E-09	1.23E-08	7.57E-11	4.58E-10	2.69E-10	8.03E-10
498	577475.5	4194117	1.08E-08	3.63E-08	2.84E-08	0.00E+00	7.55E-08	1.68E-09	5.86E-09	4.48E-09	1.20E-08	7.38E-11	4.47E-10	2.63E-10	7.84E-10
499	577482.8	4194122	1.05E-08	3.54E-08	2.76E-08	0.00E+00	7.36E-08	1.64E-09	5.71E-09	4.36E-09	1.17E-08	7.20E-11	4.36E-10	2.56E-10	7.64E-10
500	577490.1	4194127	1.02E-08	3.45E-08	2.69E-08	0.00E+00	7.16E-08	1.60E-09	5.56E-09	4.25E-09	1.14E-08	7.01E-11	4.24E-10	2.49E-10	7.44E-10
501	577497.4	4194133	9.96E-09	3.35E-08	2.61E-08	0.00E+00	6.96E-08	1.55E-09	5.40E-09	4.13E-09	1.11E-08	6.81E-11	4.12E-10	2.42E-10	7.23E-10
502	577504.7	4194138	9.66E-09	3.25E-08	2.54E-08	0.00E+00	6.76E-08	1.51E-09	5.24E-09	4.01E-09	1.08E-08	6.61E-11	4.00E-10	2.35E-10	7.01E-10
503	577512.1	4194143	9.37E-09	3.15E-08	2.46E-08	0.00E+00	6.55E-08	1.46E-09	5.09E-09	3.89E-09	1.04E-08	6.41E-11	3.88E-10	2.28E-10	6.80E-10
504	577521	4194157	9.27E-09	3.12E-08	2.43E-08	0.00E+00	6.48E-08	1.44E-09	5.03E-09	3.84E-09	1.03E-08	6.34E-11	3.84E-10	2.25E-10	6.73E-10
505	577522.5	4194166	9.44E-09	3.18E-08	2.48E-08	0.00E+00	6.60E-08	1.47E-09	5.12E-09	3.92E-09	1.05E-08	6.46E-11	3.91E-10	2.30E-10	6.86E-10
506	577525.7	4194184	9.75E-09	3.28E-08	2.56E-08	0.00E+00	6.82E-08	1.52E-09	5.29E-09	4.04E-09	1.09E-08	6.67E-11	4.04E-10	2.37E-10	7.08E-10
507	577535.2	4194237	1.02E-08	3.44E-08	2.68E-08	0.00E+00	7.14E-08	1.59E-09	5.54E-09	4.23E-09	1.14E-08	6.98E-11	4.23E-10	2.48E-10	7.41E-10
508	577538.3	4194255	1.01E-08	3.39E-08	2.65E-08	0.00E+00	7.05E-08	1.57E-09	5.47E-09	4.18E-09	1.12E-08	6.90E-11	4.18E-10	2.45E-10	7.32E-10
509	577541.5	4194273	9.80E-09	3.30E-08	2.57E-08	0.00E+00	6.85E-08	1.53E-09	5.32E-09	4.06E-09	1.09E-08	6.70E-11	4.06E-10	2.38E-10	7.11E-10
510	577544.7	4194290	9.29E-09	3.13E-08	2.44E-08	0.00E+00	6.49E-08	1.45E-09	5.04E-09	3.85E-09	1.03E-08	6.35E-11	3.85E-10	2.26E-10	6.74E-10
511	577547.8	4194308	8.72E-09	2.93E-08	2.29E-08	0.00E+00	6.09E-08	1.36E-09	4.73E-09	3.61E-09	9.70E-09	5.96E-11	3.61E-10	2.12E-10	6.33E-10
512	577549.4	4194317	8.42E-09	2.83E-08	2.21E-08	0.00E+00	5.89E-08	1.31E-09	4.57E-09	3.49E-09	9.37E-09	5.76E-11	3.49E-10	2.05E-10	6.11E-10
513	577373.1	4194043	1.17E-08	3.94E-08	3.07E-08	0.00E+00	8.18E-08	1.82E-09	6.35E-09	4.85E-09	1.30E-08	8.01E-11	4.85E-10	2.85E-10	8.50E-10
514	577364	4194041	1.17E-08	3.93E-08	3.06E-08	0.00E+00	8.16E-08	1.82E-09	6.33E-09	4.84E-09	1.30E-08	7.98E-11	4.83E-10	2.84E-10	8.47E-10
515	577355	4194039	1.16E-08	3.90E-08	3.04E-08	0.00E+00	8.09E-08	1.80E-09	6.28E-09	4.80E-09	1.29E-08	7.91E-11	4.79E-10	2.82E-10	8.40E-10
516	577345.9	4194036	1.14E-08	3.85E-08	3.00E-08	0.00E+00	7.99E-08	1.78E-09	6.21E-09	4.74E-09	1.27E-08	7.82E-11	4.74E-10	2.78E-10	8.30E-10
517	577336.9	4194034	1.13E-08	3.79E-08	2.96E-08	0.00E+00	7.88E-08	1.76E-09	6.11E-09	4.67E-09	1.25E-08	7.70E-11	4.67E-10	2.74E-10	8.18E-10
518	577327.9	4194032	1.11E-08	3.72E-08	2.91E-08	0.00E+00	7.74E-08	1.72E-09	6.01E-09	4.59E-09	1.23E-08	7.57E-11	4.58E-10	2.69E-10	8.03E-10
519	577382.7	4194039	1.11E-08	3.73E-08	2.91E-08	0.00E+00	7.75E-08	1.73E-09	6.01E-09	4.59E-09	1.23E-08	7.58E-11	4.59E-10	2.70E-10	8.04E-10
520	577397.2	4194049	1.15E-08	3.86E-08	3.02E-08	0.00E+00	8.03E-08	1.79E-09	6.23E-09	4.76E-09	1.28E-08	7.85E-11	4.76E-10	2.79E-10	8.34E-10
521	577411.7	4194059	1.17E-08	3.92E-08	3.06E-08	0.00E+00	8.15E-08	1.82E-09	6.33E-09	4.83E-09	1.30E-08	7.97E-11	4.83E-10	2.84E-10	8.46E-10
522	577426.2	4194070	1.16E-08	3.90E-08	3.04E-08	0.00E+00	8.10E-08	1.81E-09	6.29E-09	4.81E-09	1.29E-08	7.93E-11	4.80E-10	2.82E-10	8.41E-10
523	577440.7	4194080	1.13E-08	3.81E-08	2.97E-08	0.00E+00	7.91E-08	1.76E-09	6.14E-09	4.69E-09	1.26E-08	7.74E-11	4.69E-10	2.75E-10	8.22E-10
524	577455.3	4194091	1.09E-08	3.67E-08	2.87E-08	0.00E+00	7.63E-08	1.70E-09	5.92E-09	4.53E-09	1.22E-08	7.47E-11	4.52E-10	2.66E-10	7.93E-10
525	577469.8	4194101	1.05E-08	3.52E-08	2.75E-08	0.00E+00	7.31E-08	1.63E-09	5.67E-09	4.33E-09	1.16E-08	7.15E-11	4.33E-10	2.54E-10	7.59E-10
526	577484.3	4194112	9.97E-09	3.36E-08	2.62E-08	0.00E+00	6.97E-08	1.55E-09	5.41E-09	4.14E-09	1.11E-08	6.82E-11	4.13E-10	2.43E-10	7.24E-10
527	577498.8	4194122	9.47E-09	3.19E-08	2.49E-08	0.00E+00	6.62E-08	1.48E-09	5.14E-09	3.93E-09	1.05E-08	6.48E-11	3.92E-10	2.30E-10	6.87E-10
528	577513.3	4194133	8.95E-09	3.01E-08	2.35E-08	0.00E+00	6.25E-08	1.39E-09	4.85E-09	3.71E-09	9.96E-09	6.12E-11	3.71E-10	2.18E-10	6.49E-10
529	577529.4	4194152	8.60E-09	2.89E-08	2.26E-08	0.00E+00	6.01E-08	1.34E-09	4.66E-09	3.56E-09	9.57E-09	5.88E-11	3.56E-10	2.09E-10	6.24E-10
530	577531	4194161	8.75E-09	2.95E-08	2.30E-08	0.00E+00	6.12E-08	1.36E-09	4.75E-09	3.63E-09	9.74E-09	5.99E-11	3.63E-10	2.13E-10	6.35E-10
531	577534.1	4194178	9.04E-09	3.04E-08	2.37E-08	0.00E+00	6.32E-08	1.41E-09	4.90E-09	3.75E-09	1.01E-08	6.18E-11	3.74E-10	2.20E-10	6.56E-10
532	577537.3	4194196	9.27E-09	3.12E-08	2.43E-08	0.00E+00	6.48E-08	1.44E-09	5.03E-09	3.84E-09	1.03E-08	6.34E-11	3.84E-10	2.26E-10	6.73E-10
533	577543.5	4194231	9.49E-09	3.20E-08	2.49E-08	0.00E+00	6.64E-08	1.48E-09	5.15E-09	3.94E-09	1.06E-08	6.49E-11	3.93E-10	2.31E-10	6.89E-10
534	577546.7	4194249	9.41E-09	3.17E-08	2.47E-08	0.00E+00	6.58E-08	1.47E-09	5.11E-09	3.90E-09	1.05E-08	6.43E-11	3.90E-10	2.29E-10	6.83E-10
535	577549.8	4194266	9.05E-09	3.04E-08	2.38E-08	0.00E+00	6.32E-08	1.41E-09	4.91E-09	3.75E-09	1.01E-08	6.19E-11	3.75E-10	2.20E-10	6.57E-10
536	577551.4	4194275	8.86E-09	2.98E-08	2.33E-08	0.00E+00	6.19E-08	1.38E-09	4.81E-09	3.67E-09	9.86E-09	6.06E-11	3.67E-10	2.16E-10	6.43E-10
537	577554.5	4194293	8.43E-09	2.84E-08	2.21E-08	0.00E+00	5.89E-08	1.31E-09	4.58E-09	3.50E-09	9.38E-09	5.77E-11	3.49E-10	2.05E-10	6.12E-10
538	577557.6	4194310	7.95E-09	2.68E-08	2.09E-08	0.00E+00	5.56E-08	1.24E-09	4.31E-09	3.30E-09	8.85E-09	5.44E-11	3.29E-10	1.93E-10	5.77E-10
539	577366.4	4194031	1.08E-08	3.62E-08	2.83E-08	0.00E+00	7.52E-08	1.68E-09	5.84E-09	4.46E-09	1.20E-08	7.36E-11	4.46E-10	2.62E-10	7.81E-10
540	577357.4	4194029	1.07E-08	3.59E-08	2.80E-08	0.00E+00	7.46E-08	1.66E-09	5.79E-09	4.42E-09	1.19E-08	7.30E-11	4.42E-10	2.60E-10	7.74E-10
541	577348.3	4194027	1.05E-08	3.55E-08	2.77E-08	0.00E+00	7.37E-08	1.64E-09	5.72E-09	4.37E-09	1.17E-08	7.21E-11	4.37E-10	2.56E-10	7.65E-10
542	577339.3	4194024	1.04E-08	3.50E-08	2.73E-08	0.00E+00	7.26E-08	1.62E-09	5.64E-09	4.31E-09	1.16E-08	7.10E-11	4.30E-10	2.53E-10	7.54E-10
543	577330.2	4194022	1.02E-08	3.43E-08	2.68E-08	0.00E+00	7.14E-08	1.59E-09	5.54E-09	4.23E-09	1.14E-08	6.98E-11	4.23E-10	2.48E-10	7.41E-10
544	577385	4194029	1.03E-08	3.45E-08	2.69E-08	0.00E+00	7.17E-08	1.60E-09	5.57E-09	4.25E-09	1.14E-08	7.01E-11	4.25E-10	2.50E-10	7.45E-10
545	577399.4	4194039	1.06E-08	3.58E-08	2.80E-08	0.00E+00	7.45E-08	1.66E-09	5.78E-09	4.42E-09	1.19E-08	7.28E-11	4.41E-10	2.59E-10	7.73E-10
546	577413.8	4194050	1.08E-08	3.65E-08	2.85E-08	0.00E+00	7.58E-08	1.69E-09	5.88E-09	4.50E-09	1.21E-08	7.41E-11	4.49E-10	2.64E-10	7.87E-10
547	577428.2	4194060	1.08E-08	3.64E-08	2.84E-08	0.00E+00	7.57E-08	1.69E-09	5.88E-09	4.49E-09	1.21E-08	7.41E-11	4.49E-10	2.63E-10	7.86E-10
548	577442.6	4194070	1.06E-08	3.57E-08	2.79E-08	0.00E+00	7.43E-08	1.65E-09	5.76E-09	4.40E-09	1.18E-08	7.26E-11	4.40E-10	2.58E-10	7.71E-10
549	577457	4194081	1.03E-08	3.46E-08	2.70E-08	0.00E+00	7.19E-08	1.60E-09	5.58E-09	4.27E-09	1.15E-08	7.04E-11	4.26E-10	2.50E-10	7.47E-10
550	577471.5	4194091	9.89E-09	3.33E-08	2.60E-08	0.00E+00	6.91E-08	1.54E-09	5.37E-09	4.10E-09	1.10E-08	6.76E-11	4.10E-10	2.41E-10	7.18E-10
551	577485.9	4194101	9.46E-09	3.18E-08	2.48E-08	0.00E+00	6.61E-08	1.47E-09	5.13E-09	3.92E-09	1.05E-08	6.47E-11	3.92E-10	2.30E-10	6.87E-10
552	577500.3	4194112	9.01E-09	3.03E-08	2.37E-08	0.00E+00	6.30E-08	1.40E-09	4.89E-09	3.74E-09	1.00E-08	6.16E-11	3.73E-10	2.19E-10	6.54E-10
553	577514.7	4194122	8.54E-09	2.87E-08	2.24E-08	0.00E+00	5.97E-08	1.33E-09	4.63E-09	3.54E-09	9.51E-09	5.84E-11	3.54E-10	2.08E-10	6.20E-10
554	577529.1	4194133	8.07E-09	2.72E-08	2.12E-08	0.00E+00	5.64E-08	1.26E-09	4.38E-09	3.35E-09	8.99E-09	5.52E-11	3.34E-10	1.96E-10	5.86E-10
555	577537.9	4194146	7.99E-09	2.69E-08	2.10E-08	0.00E+00	5.59E-08	1.25E-09	4.34E-09	3.31E-09	8.89E-09	5.47E-11	3.31E-10	1.94E-10	5.80E-10
556	577541	4194164	8.27E-09	2.78E-08	2.17E-08	0.00E+00	5.78E-08	1.29E-09	4.49E-09	3.43E-09	9.20E-09	5.65E-11	3.42E-10	2.01E-10	6.00E-10
557	577544.1	4194181	8.51E-09	2.86E-08	2.23E-08	0.00E+00	5.95E-08	1.33E-09	4.62E-09	3.53E-09	9.47E-09	5.82E-11	3.52E-10	2.07E-10	6.18E-10
558	577547.2	4194199	8.70E-09	2.93E-08	2.28E-08	0.00E+00	6.08E-08	1.36E-09	4.72E-09	3.61E-09	9.68E-09	5.95E-11	3.60E-10	2.12E-10	6.31E-10
559	577553.4	4194234	8.84E-09	2.98E-08	2.32E-08	0.00E+00	6.18E-08	1.38E-09	4.80E-09	3.67E-09	9.84E-09	6.05E-11	3.66E-10	2.15E-10	6.42E-10
560	577556.5	4194251	8.60E-09	2.89E-08	2.26E-08	0.00E+00	6.01E-08	1.34E-09	4.67E-09	3.56E-09	9.57E-09	5.88E-11	3.56E-10	2.09E-10	6.24E-10
561	577559.7	4194269	8.26E-09	2.78E-08	2.17E-08	0.00E+00	5.77E-08	1.29E-09	4.48E-09	3.42E-09	9.19E-09	5.65E-11	3.42E-10	2.01E-10	6.00E-10
562	577562.8	4194286	7.87E-09	2.65E-08	2.07E-08	0.00E+00	5.50E-08	1.23E-09	4.27E-09	3.26E-09	8.76E-09	5.38E-11	3.26E-10	1.92E-10	5.71E-10
563	577565.9	4194304	7.48E-09	2.52E-08	1.96E-08	0.00E+00	5.23E-08	1.17E-09	4.06E-09	3.10E-09	8.32E-09	5.11E-11	3.10E-10	1.82E-10	5.43E-10
564	577368.8	4194021	9.94E-09	3.35E-08	2.61E-08	0.00E+00	6.95E-08	1.55E-09	5.40E-09	4.12E-09	1.11E-08	6.80E-11	4.12E-10	2.42E-10	7.22E-10
565	577359.7	4194019	9.86E-09	3.32E-08	2.59E-08	0.00E+00	6.89E-08	1.54E-09	5.35E-09	4.09E-09	1.10E-08	6.74E-11	4.08E-10	2.40E-10	7.16E-10
566	577350.7	4194017	9.74E-09	3.28E-08	2.56E-08	0.00E+00	6.81E-08	1.52E-09	5.29E-09	4.04E-09	1.08E-08	6.66E-11	4.04E-10	2.37E-10	7.07E-10
567	577341.7	4194015	9.60E-09	3.23E-08	2.52E-08	0.00E+00	6.71E-08	1.50E-09	5.21E-09	3.98E-09	1.07E-08	6.56E-11	3.98E-10	2.34E-10	6.97E-10
568	577332.6	4194013	9.44E-09	3.18E-08	2.48E-08	0.00E+00	6.60E-08	1.47E-09	5.12E-09	3.91E-09	1.05E-08	6.45E-11	3.91E-10	2.30E-10	6.85E-10
569	577387.6	4194019	9.53E-09	3.21E-08	2.50E-08	0.00E+00	6.66E-08	1.48E-09	5.17E-09	3.95E-09	1.06E-08	6.52E-11	3.95E-10	2.32E-10	6.92E-10
570	577395.1	4194025	9.75E-09	3.28E-08	2.56E-08	0.00E+00	6.81E-08	1.52E-09	5.29E-09	4.04E-09	1.08E-08	6.67E-11	4.04E-10	2.37E-10	7.07E-10

571	577402.6	4194030	9.92E-09	3.34E-08	2.60E-08	0.00E+00	6.93E-08	1.55E-09	5.38E-09	4.11E-09	1.10E-08	6.78E-11	4.11E-10	2.41E-10	7.20E-10
572	577410.1	4194035	1.00E-08	3.38E-08	2.64E-08	0.00E+00	7.02E-08	1.56E-09	5.45E-09	4.16E-09	1.12E-08	6.87E-11	4.16E-10	2.44E-10	7.29E-10
573	577417.6	4194041	1.01E-08	3.40E-08	2.66E-08	0.00E+00	7.07E-08	1.58E-09	5.49E-09	4.19E-09	1.13E-08	6.92E-11	4.19E-10	2.46E-10	7.34E-10
574	577425	4194046	1.01E-08	3.41E-08	2.66E-08	0.00E+00	7.09E-08	1.58E-09	5.50E-09	4.20E-09	1.13E-08	6.94E-11	4.20E-10	2.47E-10	7.36E-10
575	577432.5	4194052	1.01E-08	3.40E-08	2.66E-08	0.00E+00	7.07E-08	1.58E-09	5.49E-09	4.19E-09	1.13E-08	6.92E-11	4.19E-10	2.46E-10	7.34E-10
576	577440	4194057	1.00E-08	3.38E-08	2.64E-08	0.00E+00	7.02E-08	1.56E-09	5.45E-09	4.16E-09	1.12E-08	6.87E-11	4.16E-10	2.44E-10	7.29E-10
577	577447.5	4194062	9.93E-09	3.34E-08	2.61E-08	0.00E+00	6.94E-08	1.55E-09	5.39E-09	4.12E-09	1.11E-08	6.79E-11	4.11E-10	2.42E-10	7.21E-10
578	577455	4194068	9.79E-09	3.29E-08	2.57E-08	0.00E+00	6.84E-08	1.52E-09	5.31E-09	4.06E-09	1.09E-08	6.69E-11	4.05E-10	2.38E-10	7.10E-10
579	577462.5	4194073	9.62E-09	3.24E-08	2.53E-08	0.00E+00	6.73E-08	1.50E-09	5.22E-09	3.99E-09	1.07E-08	6.58E-11	3.98E-10	2.34E-10	6.98E-10
580	577469.9	4194079	9.44E-09	3.18E-08	2.48E-08	0.00E+00	6.60E-08	1.47E-09	5.12E-09	3.91E-09	1.05E-08	6.45E-11	3.91E-10	2.30E-10	6.85E-10
581	577477.4	4194084	9.24E-09	3.11E-08	2.43E-08	0.00E+00	6.46E-08	1.44E-09	5.02E-09	3.83E-09	1.03E-08	6.32E-11	3.83E-10	2.25E-10	6.71E-10
582	577484.9	4194089	9.04E-09	3.04E-08	2.38E-08	0.00E+00	6.32E-08	1.41E-09	4.91E-09	3.75E-09	1.01E-08	6.19E-11	3.75E-10	2.20E-10	6.57E-10
583	577492.4	4194095	8.84E-09	2.98E-08	2.32E-08	0.00E+00	6.18E-08	1.38E-09	4.80E-09	3.67E-09	9.84E-09	6.05E-11	3.66E-10	2.15E-10	6.42E-10
584	577499.9	4194100	8.63E-09	2.90E-08	2.27E-08	0.00E+00	6.03E-08	1.34E-09	4.68E-09	3.58E-09	9.61E-09	5.90E-11	3.57E-10	2.10E-10	6.26E-10
585	577507.4	4194105	8.41E-09	2.83E-08	2.21E-08	0.00E+00	5.88E-08	1.31E-09	4.57E-09	3.49E-09	9.36E-09	5.75E-11	3.48E-10	2.05E-10	6.11E-10
586	577514.8	4194111	8.19E-09	2.76E-08	2.15E-08	0.00E+00	5.73E-08	1.28E-09	4.45E-09	3.40E-09	9.12E-09	5.60E-11	3.39E-10	1.99E-10	5.95E-10
587	577522.3	4194116	7.97E-09	2.68E-08	2.09E-08	0.00E+00	5.57E-08	1.24E-09	4.33E-09	3.30E-09	8.87E-09	5.45E-11	3.30E-10	1.94E-10	5.79E-10
588	577529.8	4194122	7.75E-09	2.61E-08	2.04E-08	0.00E+00	5.42E-08	1.21E-09	4.21E-09	3.21E-09	8.63E-09	5.30E-11	3.21E-10	1.89E-10	5.63E-10
589	577537.3	4194127	7.54E-09	2.54E-08	1.98E-08	0.00E+00	5.27E-08	1.17E-09	4.09E-09	3.12E-09	8.39E-09	5.15E-11	3.12E-10	1.83E-10	5.47E-10
590	577546.4	4194142	7.45E-09	2.51E-08	1.96E-08	0.00E+00	5.21E-08	1.16E-09	4.04E-09	3.09E-09	8.30E-09	5.10E-11	3.09E-10	1.81E-10	5.41E-10
591	577548	4194151	7.58E-09	2.55E-08	1.99E-08	0.00E+00	5.30E-08	1.18E-09	4.12E-09	3.14E-09	8.44E-09	5.19E-11	3.14E-10	1.85E-10	5.51E-10
592	577549.6	4194160	7.71E-09	2.60E-08	2.02E-08	0.00E+00	5.39E-08	1.20E-09	4.18E-09	3.20E-09	8.58E-09	5.27E-11	3.19E-10	1.88E-10	5.60E-10
593	577551.2	4194169	7.83E-09	2.64E-08	2.06E-08	0.00E+00	5.47E-08	1.22E-09	4.25E-09	3.25E-09	8.72E-09	5.36E-11	3.24E-10	1.90E-10	5.68E-10
594	577552.9	4194178	7.94E-09	2.67E-08	2.09E-08	0.00E+00	5.55E-08	1.24E-09	4.31E-09	3.29E-09	8.84E-09	5.43E-11	3.29E-10	1.93E-10	5.76E-10
595	577554.5	4194187	8.04E-09	2.71E-08	2.11E-08	0.00E+00	5.62E-08	1.25E-09	4.36E-09	3.33E-09	8.95E-09	5.50E-11	3.33E-10	1.96E-10	5.84E-10
596	577556.1	4194196	8.12E-09	2.73E-08	2.13E-08	0.00E+00	5.68E-08	1.27E-09	4.41E-09	3.37E-09	9.04E-09	5.55E-11	3.36E-10	1.98E-10	5.90E-10
597	577562.6	4194232	8.26E-09	2.78E-08	2.17E-08	0.00E+00	5.77E-08	1.29E-09	4.48E-09	3.42E-09	9.19E-09	5.65E-11	3.42E-10	2.01E-10	5.99E-10
598	577564.2	4194241	8.21E-09	2.76E-08	2.16E-08	0.00E+00	5.74E-08	1.28E-09	4.45E-09	3.40E-09	9.13E-09	5.61E-11	3.40E-10	2.00E-10	5.96E-10
599	577565.8	4194250	7.99E-09	2.69E-08	2.10E-08	0.00E+00	5.59E-08	1.25E-09	4.34E-09	3.31E-09	8.90E-09	5.47E-11	3.31E-10	1.94E-10	5.80E-10
600	577567.4	4194260	7.79E-09	2.62E-08	2.05E-08	0.00E+00	5.45E-08	1.21E-09	4.23E-09	3.23E-09	8.67E-09	5.33E-11	3.23E-10	1.90E-10	5.66E-10
601	577569	4194269	7.63E-09	2.57E-08	2.00E-08	0.00E+00	5.33E-08	1.19E-09	4.14E-09	3.16E-09	8.49E-09	5.22E-11	3.16E-10	1.86E-10	5.54E-10
602	577570.6	4194278	7.44E-09	2.50E-08	1.95E-08	0.00E+00	5.20E-08	1.16E-09	4.04E-09	3.08E-09	8.28E-09	5.09E-11	3.08E-10	1.81E-10	5.40E-10
603	577572.3	4194287	7.23E-09	2.43E-08	1.90E-08	0.00E+00	5.06E-08	1.13E-09	3.92E-09	3.00E-09	8.05E-09	4.95E-11	3.00E-10	1.76E-10	5.25E-10
604	577573.9	4194296	7.06E-09	2.38E-08	1.85E-08	0.00E+00	4.93E-08	1.10E-09	3.83E-09	2.93E-09	7.85E-09	4.83E-11	2.92E-10	1.72E-10	5.12E-10
605	577575.5	4194305	6.87E-09	2.31E-08	1.80E-08	0.00E+00	4.80E-08	1.07E-09	3.73E-09	2.85E-09	7.64E-09	4.70E-11	2.84E-10	1.67E-10	4.99E-10
606	577577.1	4194314	6.67E-09	2.24E-08	1.75E-08	0.00E+00	4.66E-08	1.04E-09	3.62E-09	2.76E-09	7.42E-09	4.56E-11	2.76E-10	1.62E-10	4.84E-10
607	577578.7	4194323	6.46E-09	2.17E-08	1.70E-08	0.00E+00	4.51E-08	1.01E-09	3.50E-09	2.68E-09	7.19E-09	4.42E-11	2.67E-10	1.57E-10	4.69E-10
608	577380.2	4194014	9.27E-09	3.12E-08	2.43E-08	0.00E+00	6.48E-08	1.44E-09	5.03E-09	3.84E-09	1.03E-08	6.34E-11	3.84E-10	2.26E-10	6.73E-10
609	577371.1	4194012	9.22E-09	3.10E-08	2.42E-08	0.00E+00	6.44E-08	1.44E-09	5.00E-09	3.82E-09	1.03E-08	6.30E-11	3.82E-10	2.24E-10	6.69E-10
610	577362.1	4194009	9.14E-09	3.07E-08	2.40E-08	0.00E+00	6.39E-08	1.42E-09	4.96E-09	3.79E-09	1.02E-08	6.25E-11	3.78E-10	2.22E-10	6.63E-10
611	577353.1	4194007	9.03E-09	3.04E-08	2.37E-08	0.00E+00	6.31E-08	1.41E-09	4.90E-09	3.74E-09	1.00E-08	6.17E-11	3.74E-10	2.20E-10	6.55E-10
612	577344	4194005	8.90E-09	2.99E-08	2.34E-08	0.00E+00	6.22E-08	1.39E-09	4.83E-09	3.69E-09	9.90E-09	6.08E-11	3.68E-10	2.16E-10	6.46E-10
613	577335	4194003	8.74E-09	2.94E-08	2.30E-08	0.00E+00	6.11E-08	1.36E-09	4.75E-09	3.63E-09	9.73E-09	5.98E-11	3.62E-10	2.13E-10	6.35E-10
614	577389.9	4194009	8.86E-09	2.98E-08	2.33E-08	0.00E+00	6.19E-08	1.38E-09	4.81E-09	3.67E-09	9.86E-09	6.06E-11	3.67E-10	2.15E-10	6.43E-10
615	577397.4	4194015	9.07E-09	3.05E-08	2.38E-08	0.00E+00	6.34E-08	1.41E-09	4.92E-09	3.76E-09	1.01E-08	6.20E-11	3.76E-10	2.21E-10	6.58E-10
616	577404.8	4194020	9.24E-09	3.11E-08	2.43E-08	0.00E+00	6.46E-08	1.44E-09	5.01E-09	3.83E-09	1.03E-08	6.32E-11	3.83E-10	2.25E-10	6.70E-10
617	577412.2	4194026	9.36E-09	3.15E-08	2.46E-08	0.00E+00	6.54E-08	1.46E-09	5.08E-09	3.88E-09	1.04E-08	6.40E-11	3.88E-10	2.28E-10	6.79E-10
618	577419.6	4194031	9.44E-09	3.18E-08	2.48E-08	0.00E+00	6.60E-08	1.47E-09	5.12E-09	3.91E-09	1.05E-08	6.46E-11	3.91E-10	2.30E-10	6.85E-10
619	577427.1	4194036	9.48E-09	3.19E-08	2.49E-08	0.00E+00	6.63E-08	1.48E-09	5.14E-09	3.93E-09	1.06E-08	6.48E-11	3.93E-10	2.31E-10	6.88E-10
620	577434.5	4194042	9.48E-09	3.19E-08	2.49E-08	0.00E+00	6.63E-08	1.48E-09	5.14E-09	3.93E-09	1.05E-08	6.48E-11	3.93E-10	2.31E-10	6.88E-10
621	577441.9	4194047	9.43E-09	3.17E-08	2.48E-08	0.00E+00	6.59E-08	1.47E-09	5.12E-09	3.91E-09	1.05E-08	6.45E-11	3.91E-10	2.29E-10	6.84E-10
622	577449.3	4194052	9.34E-09	3.14E-08	2.45E-08	0.00E+00	6.53E-08	1.46E-09	5.07E-09	3.87E-09	1.04E-08	6.39E-11	3.87E-10	2.27E-10	6.78E-10
623	577456.7	4194058	9.23E-09	3.11E-08	2.42E-08	0.00E+00	6.45E-08	1.44E-09	5.01E-09	3.83E-09	1.03E-08	6.31E-11	3.82E-10	2.24E-10	6.70E-10
624	577464.2	4194063	9.09E-09	3.06E-08	2.39E-08	0.00E+00	6.36E-08	1.42E-09	4.93E-09	3.77E-09	1.01E-08	6.22E-11	3.77E-10	2.21E-10	6.60E-10
625	577471.6	4194068	8.94E-09	3.01E-08	2.35E-08	0.00E+00	6.25E-08	1.39E-09	4.85E-09	3.70E-09	9.95E-09	6.11E-11	3.70E-10	2.17E-10	6.49E-10
626	577479	4194074	8.76E-09	2.95E-08	2.30E-08	0.00E+00	6.13E-08	1.37E-09	4.76E-09	3.63E-09	9.76E-09	5.99E-11	3.63E-10	2.13E-10	6.36E-10
627	577486.4	4194079	8.59E-09	2.89E-08	2.25E-08	0.00E+00	6.00E-08	1.34E-09	4.66E-09	3.56E-09	9.56E-09	5.87E-11	3.56E-10	2.09E-10	6.23E-10
628	577493.9	4194084	8.40E-09	2.83E-08	2.21E-08	0.00E+00	5.88E-08	1.31E-09	4.56E-09	3.48E-09	9.35E-09	5.75E-11	3.48E-10	2.04E-10	6.10E-10
629	577501.3	4194090	8.22E-09	2.77E-08	2.16E-08	0.00E+00	5.74E-08	1.28E-09	4.46E-09	3.41E-09	9.15E-09	5.62E-11	3.40E-10	2.00E-10	5.96E-10
630	577508.7	4194095	8.02E-09	2.70E-08	2.11E-08	0.00E+00	5.61E-08	1.25E-09	4.35E-09	3.33E-09	8.93E-09	5.49E-11	3.32E-10	1.95E-10	5.82E-10
631	577516.1	4194100	7.83E-09	2.63E-08	2.06E-08	0.00E+00	5.47E-08	1.22E-09	4.25E-09	3.24E-09	8.71E-09	5.35E-11	3.24E-10	1.90E-10	5.68E-10
632	577523.5	4194106	7.63E-09	2.57E-08	2.00E-08	0.00E+00	5.33E-08	1.19E-09	4.14E-09	3.16E-09	8.49E-09	5.22E-11	3.16E-10	1.86E-10	5.54E-10
633	577531	4194111	7.43E-09	2.50E-08	1.95E-08	0.00E+00	5.20E-08	1.16E-09	4.03E-09	3.08E-09	8.27E-09	5.08E-11	3.08E-10	1.81E-10	5.40E-10
634	577538.4	4194116	7.24E-09	2.44E-08	1.90E-08	0.00E+00	5.06E-08	1.13E-09	3.93E-09	3.00E-09	8.06E-09	4.95E-11	3.00E-10	1.76E-10	5.25E-10
635	577545.8	4194122	7.04E-09	2.37E-08	1.85E-08	0.00E+00	4.92E-08	1.10E-09	3.82E-09	2.92E-09	7.84E-09	4.82E-11	2.92E-10	1.71E-10	5.11E-10
636	577554.8	4194136	6.96E-09	2.34E-08	1.83E-08	0.00E+00	4.87E-08	1.08E-09	3.78E-09	2.89E-09	7.75E-09	4.76E-11	2.88E-10	1.69E-10	5.05E-10
637	577556.4	4194145	7.08E-09	2.38E-08	1.86E-08	0.00E+00	4.95E-08	1.10E-09	3.84E-09	2.94E-09	7.88E-09	4.84E-11	2.93E-10	1.72E-10	5.14E-10
638	577558	4194154	7.19E-09	2.42E-08	1.89E-08	0.00E+00	5.03E-08	1.12E-09	3.90E-09	2.98E-09	8.01E-09	4.92E-11	2.98E-10	1.75E-10	5.22E-10
639	577559.7	4194163	7.30E-09	2.46E-08	1.92E-08	0.00E+00	5.10E-08	1.14E-09	3.96E-09	3.03E-09	8.13E-09	4.99E-11	3.02E-10	1.78E-10	5.30E-10
640	577561.3	4194172	7.40E-09	2.49E-08	1.94E-08	0.00E+00	5.17E-08	1.15E-09	4.02E-09	3.07E-09	8.24E-09	5.06E-11	3.07E-10	1.80E-10	5.37E-10
641	577562.9	4194181	7.49E-09	2.52E-08	1.97E-08	0.00E+00	5.24E-08	1.17E-09	4.07E-09	3.11E-09	8.34E-09	5.12E-11	3.10E-10	1.82E-10	5.44E-10
642	577564.5	4194190	7.57E-09	2.55E-08	1.99E-08	0.00E+00	5.29E-08	1.18E-09	4.11E-09	3.14E-09	8.43E-09	5.18E-11	3.14E-10	1.84E-10	5.49E-10
643	577566.1	4194199	7.64E-09	2.57E-08	2.01E-08	0.00E+00	5.34E-08	1.19E-09	4.14E-09	3.17E-09	8.50E-09	5.22E-11	3.16E-10	1.86E-10	5.54E-10
644	577572.5	4194235	7.71E-09	2.59E-08	2.02E-08	0.00E+00	5.39E-08	1.20E-09	4.18E-09	3.20E-09	8.58E-09	5.27E-11	3.19E-10	1.88E-10	5.60E-10
645	577574.1	4194244	7.59E-09	2.55E-08	1.99E-08	0.00E+00	5.30E-08	1.18E-09	4.12E-09	3.15E-09	8.44E-09	5.19E-11	3.14E-10	1.85E-10	5.51E-10
646	577575.7	4194253	7.36E-09	2.48E-08	1.93E-08	0.00E+00	5.15E-08	1.15E-09	3.99E-09	3.05E-09	8.19E-09	5.03E-11	3.05E-10	1.79E-10	5.34E-10
647	577577.3	4194262	7.18E-09	2.42E-08	1.89E-08	0.00E+00	5.02E-08	1.12E-09	3.90E-09	2.98E-09	7.99E-09	4.91E-11	2.97E-10	1.75E-10	5.21E-10
648	577578.9	4194271	7.01E-09	2.36E-08	1.84E-08	0.00E+00	4.90E-08	1.09E-09	3.80E-09	2.91E-09	7.80E-09	4.79E-11	2.90E-10	1.70E-10	5.09E-10
649	577580.5	4194280	6.81E-09	2.29E-08	1.79E-08	0.00E+00	4.76E-08	1.06E-09	3.70E-09	2.83E-09	7.58E-09	4.66E-11	2.82E-10	1.66E-10	4.95E-10
650	577582.1	4194289	6.62E-09	2.23E-08	1.74E-08	0.00E+00	4.63E-08	1.03E-09	3.59E-09	2.75E-09	7.37E-09	4.53E-11	2.74E-10	1.61E-10	4.81E-10
651	577583.7	4194298	6.46E-09	2.18E-08	1.70E-08	0.00E+00	4.52E-08	1.01E-09	3.51E-09	2.68E-09	7.20E-09	4.42E-11	2.68E-10	1.57E-10	4.69E-10
652	577586.9	4194316	6.16E-09	2.07E-08	1.62E-08	0.00E+00	4.30E-08	9.59E-10	3.34E-09	2.55E-09	6.85E-09	4.21E-11	2.55E-10	1.50E-10	4.47E-10

653	577588.5	4194325	5.99E-09	2.02E-08	1.57E-08	0.00E+00	4.19E-08	9.33E-10	3.25E-09	2.48E-09	6.67E-09	4.10E-11	2.48E-10	1.46E-10	4.35E-10
654	577382.5	4194004	8.62E-09	2.90E-08	2.26E-08	0.00E+00	6.03E-08	1.34E-09	4.68E-09	3.57E-09	9.60E-09	5.90E-11	3.57E-10	2.10E-10	6.26E-10
655	577373.5	4194002	8.57E-09	2.88E-08	2.25E-08	0.00E+00	5.99E-08	1.33E-09	4.65E-09	3.55E-09	9.54E-09	5.86E-11	3.55E-10	2.08E-10	6.22E-10
656	577364.5	4194000	8.49E-09	2.86E-08	2.23E-08	0.00E+00	5.93E-08	1.32E-09	4.61E-09	3.52E-09	9.45E-09	5.80E-11	3.52E-10	2.06E-10	6.16E-10
657	577355.4	4193998	8.38E-09	2.82E-08	2.20E-08	0.00E+00	5.86E-08	1.31E-09	4.55E-09	3.48E-09	9.33E-09	5.73E-11	3.47E-10	2.04E-10	6.09E-10
658	577346.4	4193995	8.26E-09	2.78E-08	2.17E-08	0.00E+00	5.78E-08	1.29E-09	4.48E-09	3.43E-09	9.20E-09	5.65E-11	3.42E-10	2.01E-10	6.00E-10
659	577337.4	4193993	8.12E-09	2.73E-08	2.13E-08	0.00E+00	5.68E-08	1.27E-09	4.41E-09	3.37E-09	9.04E-09	5.56E-11	3.37E-10	1.98E-10	5.90E-10
660	577392.3	4194000	8.25E-09	2.78E-08	2.17E-08	0.00E+00	5.77E-08	1.29E-09	4.48E-09	3.42E-09	9.19E-09	5.64E-11	3.42E-10	2.01E-10	5.99E-10
661	577399.6	4194005	8.45E-09	2.84E-08	2.22E-08	0.00E+00	5.91E-08	1.32E-09	4.58E-09	3.50E-09	9.40E-09	5.78E-11	3.50E-10	2.06E-10	6.13E-10
662	577407	4194010	8.61E-09	2.90E-08	2.26E-08	0.00E+00	6.02E-08	1.34E-09	4.67E-09	3.57E-09	9.59E-09	5.89E-11	3.57E-10	2.10E-10	6.25E-10
663	577414.4	4194016	8.74E-09	2.94E-08	2.29E-08	0.00E+00	6.11E-08	1.36E-09	4.74E-09	3.62E-09	9.73E-09	5.98E-11	3.62E-10	2.13E-10	6.34E-10
664	577421.7	4194021	8.82E-09	2.97E-08	2.32E-08	0.00E+00	6.17E-08	1.37E-09	4.79E-09	3.66E-09	9.82E-09	6.04E-11	3.66E-10	2.15E-10	6.41E-10
665	577429.1	4194026	8.87E-09	2.99E-08	2.33E-08	0.00E+00	6.20E-08	1.38E-09	4.81E-09	3.68E-09	9.88E-09	6.07E-11	3.68E-10	2.16E-10	6.44E-10
666	577436.5	4194032	8.88E-09	2.99E-08	2.33E-08	0.00E+00	6.21E-08	1.38E-09	4.82E-09	3.68E-09	9.89E-09	6.08E-11	3.68E-10	2.16E-10	6.45E-10
667	577443.8	4194037	8.86E-09	2.98E-08	2.33E-08	0.00E+00	6.19E-08	1.38E-09	4.81E-09	3.67E-09	9.86E-09	6.06E-11	3.67E-10	2.15E-10	6.43E-10
668	577451.2	4194042	8.80E-09	2.96E-08	2.31E-08	0.00E+00	6.15E-08	1.37E-09	4.77E-09	3.65E-09	9.79E-09	6.02E-11	3.64E-10	2.14E-10	6.39E-10
669	577458.6	4194047	8.71E-09	2.93E-08	2.29E-08	0.00E+00	6.09E-08	1.36E-09	4.73E-09	3.61E-09	9.69E-09	5.95E-11	3.61E-10	2.12E-10	6.32E-10
670	577465.9	4194053	8.59E-09	2.89E-08	2.26E-08	0.00E+00	6.01E-08	1.34E-09	4.66E-09	3.56E-09	9.57E-09	5.88E-11	3.56E-10	2.09E-10	6.24E-10
671	577473.3	4194058	8.47E-09	2.85E-08	2.22E-08	0.00E+00	5.92E-08	1.32E-09	4.59E-09	3.51E-09	9.42E-09	5.79E-11	3.51E-10	2.06E-10	6.15E-10
672	577480.7	4194063	8.32E-09	2.80E-08	2.19E-08	0.00E+00	5.82E-08	1.30E-09	4.52E-09	3.45E-09	9.26E-09	5.69E-11	3.45E-10	2.02E-10	6.04E-10
673	577488	4194069	8.16E-09	2.75E-08	2.14E-08	0.00E+00	5.71E-08	1.27E-09	4.43E-09	3.38E-09	9.09E-09	5.58E-11	3.38E-10	1.99E-10	5.93E-10
674	577495.4	4194074	7.99E-09	2.69E-08	2.10E-08	0.00E+00	5.59E-08	1.25E-09	4.34E-09	3.31E-09	8.90E-09	5.47E-11	3.31E-10	1.94E-10	5.80E-10
675	577502.8	4194079	7.82E-09	2.63E-08	2.05E-08	0.00E+00	5.47E-08	1.22E-09	4.25E-09	3.24E-09	8.71E-09	5.35E-11	3.24E-10	1.90E-10	5.68E-10
676	577510.1	4194085	7.65E-09	2.58E-08	2.01E-08	0.00E+00	5.35E-08	1.19E-09	4.15E-09	3.17E-09	8.52E-09	5.23E-11	3.17E-10	1.86E-10	5.55E-10
677	577517.5	4194090	7.48E-09	2.52E-08	1.96E-08	0.00E+00	5.23E-08	1.16E-09	4.06E-09	3.10E-09	8.32E-09	5.11E-11	3.10E-10	1.82E-10	5.43E-10
678	577524.9	4194095	7.30E-09	2.46E-08	1.92E-08	0.00E+00	5.10E-08	1.14E-09	3.96E-09	3.03E-09	8.12E-09	4.99E-11	3.02E-10	1.78E-10	5.30E-10
679	577532.2	4194101	7.12E-09	2.40E-08	1.87E-08	0.00E+00	4.98E-08	1.11E-09	3.87E-09	2.95E-09	7.93E-09	4.87E-11	2.95E-10	1.73E-10	5.17E-10
680	577539.6	4194106	6.95E-09	2.34E-08	1.82E-08	0.00E+00	4.86E-08	1.08E-09	3.77E-09	2.88E-09	7.73E-09	4.75E-11	2.88E-10	1.69E-10	5.04E-10
681	577547	4194111	6.77E-09	2.28E-08	1.78E-08	0.00E+00	4.73E-08	1.05E-09	3.67E-09	2.81E-09	7.54E-09	4.63E-11	2.80E-10	1.65E-10	4.91E-10
682	577554.3	4194116	6.59E-09	2.22E-08	1.73E-08	0.00E+00	4.61E-08	1.03E-09	3.58E-09	2.73E-09	7.34E-09	4.51E-11	2.73E-10	1.60E-10	4.78E-10
683	577563.3	4194131	6.51E-09	2.19E-08	1.71E-08	0.00E+00	4.55E-08	1.01E-09	3.53E-09	2.70E-09	7.25E-09	4.45E-11	2.70E-10	1.58E-10	4.73E-10
684	577564.9	4194140	6.62E-09	2.23E-08	1.74E-08	0.00E+00	4.63E-08	1.03E-09	3.59E-09	2.74E-09	7.37E-09	4.53E-11	2.74E-10	1.61E-10	4.81E-10
685	577568.1	4194158	6.82E-09	2.30E-08	1.79E-08	0.00E+00	4.77E-08	1.06E-09	3.70E-09	2.83E-09	7.59E-09	4.67E-11	2.83E-10	1.66E-10	4.95E-10
686	577569.7	4194166	6.91E-09	2.33E-08	1.82E-08	0.00E+00	4.83E-08	1.08E-09	3.75E-09	2.87E-09	7.70E-09	4.73E-11	2.86E-10	1.68E-10	5.02E-10
687	577571.3	4194175	7.00E-09	2.35E-08	1.84E-08	0.00E+00	4.89E-08	1.09E-09	3.80E-09	2.90E-09	7.79E-09	4.79E-11	2.90E-10	1.70E-10	5.08E-10
688	577574.4	4194193	7.13E-09	2.40E-08	1.87E-08	0.00E+00	4.99E-08	1.11E-09	3.87E-09	2.96E-09	7.94E-09	4.88E-11	2.95E-10	1.74E-10	5.18E-10
689	577576	4194202	7.19E-09	2.42E-08	1.89E-08	0.00E+00	5.02E-08	1.12E-09	3.90E-09	2.98E-09	8.00E-09	4.91E-11	2.98E-10	1.75E-10	5.22E-10
690	577582.4	4194238	7.20E-09	2.42E-08	1.89E-08	0.00E+00	5.03E-08	1.12E-09	3.91E-09	2.98E-09	8.01E-09	4.92E-11	2.98E-10	1.75E-10	5.23E-10
691	577584	4194247	7.00E-09	2.36E-08	1.84E-08	0.00E+00	4.90E-08	1.09E-09	3.80E-09	2.90E-09	7.80E-09	4.79E-11	2.90E-10	1.70E-10	5.08E-10
692	577587.2	4194265	6.66E-09	2.24E-08	1.75E-08	0.00E+00	4.65E-08	1.04E-09	3.61E-09	2.76E-09	7.41E-09	4.55E-11	2.76E-10	1.62E-10	4.83E-10
693	577588.8	4194274	6.50E-09	2.19E-08	1.71E-08	0.00E+00	4.54E-08	1.01E-09	3.53E-09	2.69E-09	7.23E-09	4.44E-11	2.69E-10	1.58E-10	4.72E-10
694	577590.4	4194283	6.33E-09	2.13E-08	1.66E-08	0.00E+00	4.42E-08	9.86E-10	3.43E-09	2.62E-09	7.04E-09	4.33E-11	2.62E-10	1.54E-10	4.59E-10
695	577593.5	4194301	6.06E-09	2.04E-08	1.59E-08	0.00E+00	4.23E-08	9.44E-10	3.29E-09	2.51E-09	6.74E-09	4.14E-11	2.51E-10	1.47E-10	4.40E-10
696	577595.1	4194309	5.92E-09	1.99E-08	1.55E-08	0.00E+00	4.14E-08	9.22E-10	3.21E-09	2.45E-09	6.59E-09	4.05E-11	2.45E-10	1.44E-10	4.30E-10
697	577596.7	4194318	5.77E-09	1.94E-08	1.52E-08	0.00E+00	4.04E-08	9.00E-10	3.13E-09	2.39E-09	6.43E-09	3.95E-11	2.39E-10	1.40E-10	4.19E-10
698	577598.3	4194327	5.63E-09	1.89E-08	1.48E-08	0.00E+00	3.94E-08	8.77E-10	3.06E-09	2.33E-09	6.27E-09	3.85E-11	2.33E-10	1.37E-10	4.09E-10
699	577384.9	4193994	8.03E-09	2.70E-08	2.11E-08	0.00E+00	5.62E-08	1.25E-09	4.36E-09	3.33E-09	8.94E-09	5.49E-11	3.33E-10	1.95E-10	5.83E-10
700	577375.9	4193992	7.98E-09	2.69E-08	2.10E-08	0.00E+00	5.58E-08	1.24E-09	4.33E-09	3.31E-09	8.88E-09	5.46E-11	3.31E-10	1.94E-10	5.79E-10
701	577366.8	4193990	7.90E-09	2.66E-08	2.07E-08	0.00E+00	5.52E-08	1.23E-09	4.29E-09	3.28E-09	8.79E-09	5.40E-11	3.27E-10	1.92E-10	5.74E-10
702	577357.8	4193988	7.80E-09	2.63E-08	2.05E-08	0.00E+00	5.46E-08	1.22E-09	4.24E-09	3.24E-09	8.69E-09	5.34E-11	3.23E-10	1.90E-10	5.67E-10
703	577348.8	4193986	7.69E-09	2.59E-08	2.02E-08	0.00E+00	5.38E-08	1.20E-09	4.17E-09	3.19E-09	8.56E-09	5.26E-11	3.19E-10	1.87E-10	5.58E-10
704	577339.7	4193983	7.57E-09	2.55E-08	1.99E-08	0.00E+00	5.29E-08	1.18E-09	4.11E-09	3.14E-09	8.42E-09	5.17E-11	3.13E-10	1.84E-10	5.49E-10
705	577394.6	4193990	7.70E-09	2.59E-08	2.02E-08	0.00E+00	5.39E-08	1.20E-09	4.18E-09	3.19E-09	8.57E-09	5.27E-11	3.19E-10	1.87E-10	5.59E-10
706	577401.9	4193995	7.89E-09	2.65E-08	2.07E-08	0.00E+00	5.51E-08	1.23E-09	4.28E-09	3.27E-09	8.78E-09	5.39E-11	3.27E-10	1.92E-10	5.72E-10
707	577409.2	4194001	8.04E-09	2.71E-08	2.11E-08	0.00E+00	5.62E-08	1.25E-09	4.37E-09	3.34E-09	8.95E-09	5.50E-11	3.33E-10	1.96E-10	5.84E-10
708	577416.5	4194006	8.17E-09	2.75E-08	2.15E-08	0.00E+00	5.71E-08	1.27E-09	4.43E-09	3.39E-09	9.09E-09	5.59E-11	3.38E-10	1.99E-10	5.93E-10
709	577423.8	4194011	8.26E-09	2.78E-08	2.17E-08	0.00E+00	5.78E-08	1.29E-09	4.48E-09	3.42E-09	9.19E-09	5.65E-11	3.42E-10	2.01E-10	6.00E-10
710	577431.2	4194016	8.31E-09	2.80E-08	2.18E-08	0.00E+00	5.81E-08	1.30E-09	4.51E-09	3.45E-09	9.25E-09	5.69E-11	3.44E-10	2.02E-10	6.04E-10
711	577438.5	4194022	8.34E-09	2.81E-08	2.19E-08	0.00E+00	5.83E-08	1.30E-09	4.52E-09	3.46E-09	9.28E-09	5.70E-11	3.45E-10	2.03E-10	6.05E-10
712	577445.8	4194027	8.33E-09	2.80E-08	2.19E-08	0.00E+00	5.82E-08	1.30E-09	4.52E-09	3.45E-09	9.27E-09	5.70E-11	3.45E-10	2.03E-10	6.05E-10
713	577453.1	4194032	8.29E-09	2.79E-08	2.18E-08	0.00E+00	5.80E-08	1.29E-09	4.50E-09	3.44E-09	9.23E-09	5.67E-11	3.43E-10	2.02E-10	6.02E-10
714	577460.4	4194037	8.22E-09	2.77E-08	2.16E-08	0.00E+00	5.75E-08	1.28E-09	4.46E-09	3.41E-09	9.15E-09	5.62E-11	3.41E-10	2.00E-10	5.97E-10
715	577467.7	4194043	8.13E-09	2.74E-08	2.14E-08	0.00E+00	5.68E-08	1.27E-09	4.41E-09	3.37E-09	9.05E-09	5.56E-11	3.37E-10	1.98E-10	5.90E-10
716	577475.1	4194048	8.03E-09	2.70E-08	2.11E-08	0.00E+00	5.61E-08	1.25E-09	4.35E-09	3.33E-09	8.93E-09	5.49E-11	3.32E-10	1.95E-10	5.83E-10
717	577482.4	4194053	7.90E-09	2.66E-08	2.08E-08	0.00E+00	5.52E-08	1.23E-09	4.29E-09	3.28E-09	8.80E-09	5.40E-11	3.27E-10	1.92E-10	5.74E-10
718	577489.7	4194058	7.77E-09	2.61E-08	2.04E-08	0.00E+00	5.43E-08	1.21E-09	4.21E-09	3.22E-09	8.64E-09	5.31E-11	3.22E-10	1.89E-10	5.64E-10
719	577497	4194064	7.62E-09	2.56E-08	2.00E-08	0.00E+00	5.33E-08	1.19E-09	4.13E-09	3.16E-09	8.48E-09	5.21E-11	3.16E-10	1.85E-10	5.53E-10
720	577504.3	4194069	7.46E-09	2.51E-08	1.96E-08	0.00E+00	5.22E-08	1.16E-09	4.05E-09	3.09E-09	8.31E-09	5.10E-11	3.09E-10	1.82E-10	5.42E-10
721	577511.6	4194074	7.30E-09	2.46E-08	1.92E-08	0.00E+00	5.11E-08	1.14E-09	3.96E-09	3.03E-09	8.13E-09	4.99E-11	3.03E-10	1.78E-10	5.30E-10
722	577519	4194080	7.14E-09	2.40E-08	1.88E-08	0.00E+00	4.99E-08	1.11E-09	3.88E-09	2.96E-09	7.95E-09	4.88E-11	2.96E-10	1.74E-10	5.19E-10
723	577526.3	4194085	6.98E-09	2.35E-08	1.83E-08	0.00E+00	4.88E-08	1.09E-09	3.79E-09	2.90E-09	7.77E-09	4.78E-11	2.89E-10	1.70E-10	5.07E-10
724	577533.6	4194090	6.82E-09	2.30E-08	1.79E-08	0.00E+00	4.77E-08	1.06E-09	3.70E-09	2.83E-09	7.60E-09	4.67E-11	2.83E-10	1.66E-10	4.95E-10
725	577540.9	4194095	6.66E-09	2.24E-08	1.75E-08	0.00E+00	4.66E-08	1.04E-09	3.62E-09	2.76E-09	7.42E-09	4.56E-11	2.76E-10	1.62E-10	4.84E-10
726	577548.2	4194101	6.50E-09	2.19E-08	1.71E-08	0.00E+00	4.55E-08	1.01E-09	3.53E-09	2.70E-09	7.24E-09	4.45E-11	2.69E-10	1.58E-10	4.72E-10
727	577555.5	4194106	6.34E-09	2.13E-08	1.67E-08	0.00E+00	4.43E-08	9.88E-10	3.44E-09	2.63E-09	7.06E-09	4.34E-11	2.63E-10	1.54E-10	4.60E-10
728	577562.9	4194111	6.17E-09	2.08E-08	1.62E-08	0.00E+00	4.31E-08	9.61E-10	3.35E-09	2.56E-09	6.87E-09	4.22E-11	2.56E-10	1.50E-10	4.48E-10
729	577571.7	4194125	6.10E-09	2.05E-08	1.60E-08	0.00E+00	4.27E-08	9.51E-10	3.31E-09	2.53E-09	6.79E-09	4.17E-11	2.53E-10	1.48E-10	4.43E-10
730	577573.3	4194134	6.20E-09	2.09E-08	1.63E-08	0.00E+00	4.34E-08	9.66E-10	3.37E-09	2.57E-09	6.90E-09	4.24E-11	2.57E-10	1.51E-10	4.50E-10
731	577576.5	4194152	6.39E-09	2.15E-08	1.68E-08	0.00E+00	4.47E-08	9.95E-10	3.47E-09	2.65E-09	7.11E-09	4.37E-11	2.65E-10	1.55E-10	4.64E-10
732	577579.7	4194170	6.55E-09	2.20E-08	1.72E-08	0.00E+00	4.58E-08	1.02E-09	3.55E-09	2.72E-09	7.29E-09	4.48E-11	2.71E-10	1.59E-10	4.75E-10
733	577582.8	4194187	6.68E-09	2.25E-08	1.75E-08	0.00E+00	4.67E-08	1.04E-09	3.62E-09	2.77E-09	7.43E-09	4.57E-11	2.77E-10	1.62E-10	4.85E-10
734	577586	4194205	6.77E-09	2.28E-08	1.78E-08	0.00E+00	4.73E-08	1.05E-09	3.67E-09	2.81E-09	7.53E-09	4.63E-11	2.80E-10	1.65E-10	4.91E-10

735	577592.3	4194241	6.74E-09	2.27E-08	1.77E-08	0.00E+00	4.71E-08	1.05E-09	3.66E-09	2.79E-09	7.50E-09	4.61E-11	2.79E-10	1.64E-10	4.89E-10
736	577595.5	4194258	6.38E-09	2.15E-08	1.67E-08	0.00E+00	4.46E-08	9.93E-10	3.46E-09	2.64E-09	7.10E-09	4.36E-11	2.64E-10	1.55E-10	4.63E-10
737	577598.6	4194276	6.08E-09	2.05E-08	1.60E-08	0.00E+00	4.25E-08	9.48E-10	3.30E-09	2.52E-09	6.77E-09	4.16E-11	2.52E-10	1.48E-10	4.42E-10
738	577601.8	4194294	5.80E-09	1.95E-08	1.52E-08	0.00E+00	4.06E-08	9.04E-10	3.15E-09	2.41E-09	6.46E-09	3.97E-11	2.40E-10	1.41E-10	4.21E-10
739	577605	4194312	5.56E-09	1.87E-08	1.46E-08	0.00E+00	3.88E-08	8.66E-10	3.01E-09	2.30E-09	6.18E-09	3.80E-11	2.30E-10	1.35E-10	4.03E-10
740	577606.5	4194321	5.43E-09	1.83E-08	1.43E-08	0.00E+00	3.80E-08	8.46E-10	2.95E-09	2.25E-09	6.04E-09	3.71E-11	2.25E-10	1.32E-10	3.94E-10
741	577608.1	4194330	5.30E-09	1.78E-08	1.39E-08	0.00E+00	3.71E-08	8.26E-10	2.88E-09	2.20E-09	5.90E-09	3.63E-11	2.20E-10	1.29E-10	3.85E-10
742	577387.3	4193985	7.50E-09	2.52E-08	1.97E-08	0.00E+00	5.24E-08	1.17E-09	4.07E-09	3.11E-09	8.35E-09	5.13E-11	3.11E-10	1.82E-10	5.44E-10
743	577378.2	4193982	7.44E-09	2.51E-08	1.95E-08	0.00E+00	5.20E-08	1.16E-09	4.04E-09	3.09E-09	8.29E-09	5.09E-11	3.08E-10	1.81E-10	5.40E-10
744	577369.2	4193980	7.37E-09	2.48E-08	1.93E-08	0.00E+00	5.15E-08	1.15E-09	4.00E-09	3.06E-09	8.20E-09	5.04E-11	3.05E-10	1.79E-10	5.35E-10
745	577360.2	4193978	7.28E-09	2.45E-08	1.91E-08	0.00E+00	5.09E-08	1.13E-09	3.95E-09	3.02E-09	8.10E-09	4.98E-11	3.01E-10	1.77E-10	5.28E-10
746	577351.1	4193976	7.17E-09	2.41E-08	1.88E-08	0.00E+00	5.01E-08	1.12E-09	3.89E-09	2.97E-09	7.98E-09	4.90E-11	2.97E-10	1.74E-10	5.21E-10
747	577342.1	4193974	7.06E-09	2.38E-08	1.85E-08	0.00E+00	4.93E-08	1.10E-09	3.83E-09	2.93E-09	7.86E-09	4.83E-11	2.92E-10	1.72E-10	5.12E-10
748	577396.9	4193980	7.20E-09	2.42E-08	1.89E-08	0.00E+00	5.04E-08	1.12E-09	3.91E-09	2.99E-09	8.02E-09	4.93E-11	2.98E-10	1.75E-10	5.23E-10
749	577404.2	4193985	7.37E-09	2.48E-08	1.94E-08	0.00E+00	5.16E-08	1.15E-09	4.00E-09	3.06E-09	8.21E-09	5.04E-11	3.05E-10	1.79E-10	5.35E-10
750	577418.7	4193996	7.65E-09	2.58E-08	2.01E-08	0.00E+00	5.35E-08	1.19E-09	4.15E-09	3.17E-09	8.52E-09	5.23E-11	3.17E-10	1.86E-10	5.55E-10
751	577426	4194001	7.75E-09	2.61E-08	2.03E-08	0.00E+00	5.42E-08	1.21E-09	4.20E-09	3.21E-09	8.62E-09	5.30E-11	3.21E-10	1.88E-10	5.62E-10
752	577440.5	4194012	7.84E-09	2.64E-08	2.06E-08	0.00E+00	5.48E-08	1.22E-09	4.25E-09	3.25E-09	8.73E-09	5.36E-11	3.25E-10	1.91E-10	5.69E-10
753	577455.1	4194022	7.82E-09	2.63E-08	2.05E-08	0.00E+00	5.47E-08	1.22E-09	4.24E-09	3.24E-09	8.70E-09	5.35E-11	3.24E-10	1.90E-10	5.68E-10
754	577469.6	4194033	7.70E-09	2.59E-08	2.02E-08	0.00E+00	5.38E-08	1.20E-09	4.18E-09	3.19E-09	8.57E-09	5.26E-11	3.19E-10	1.87E-10	5.59E-10
755	577476.9	4194038	7.61E-09	2.56E-08	2.00E-08	0.00E+00	5.32E-08	1.19E-09	4.13E-09	3.15E-09	8.47E-09	5.20E-11	3.15E-10	1.85E-10	5.52E-10
756	577491.4	4194048	7.39E-09	2.49E-08	1.94E-08	0.00E+00	5.17E-08	1.15E-09	4.01E-09	3.06E-09	8.23E-09	5.06E-11	3.06E-10	1.80E-10	5.37E-10
757	577498.7	4194054	7.26E-09	2.44E-08	1.91E-08	0.00E+00	5.08E-08	1.13E-09	3.94E-09	3.01E-09	8.09E-09	4.97E-11	3.01E-10	1.77E-10	5.27E-10
758	577513.2	4194064	6.98E-09	2.35E-08	1.83E-08	0.00E+00	4.88E-08	1.09E-09	3.79E-09	2.90E-09	7.77E-09	4.78E-11	2.89E-10	1.70E-10	5.07E-10
759	577520.5	4194069	6.84E-09	2.30E-08	1.80E-08	0.00E+00	4.78E-08	1.07E-09	3.71E-09	2.83E-09	7.61E-09	4.67E-11	2.83E-10	1.66E-10	4.96E-10
760	577535	4194080	6.54E-09	2.20E-08	1.72E-08	0.00E+00	4.57E-08	1.02E-09	3.55E-09	2.71E-09	7.28E-09	4.47E-11	2.71E-10	1.59E-10	4.74E-10
761	577549.6	4194090	6.24E-09	2.10E-08	1.64E-08	0.00E+00	4.37E-08	9.73E-10	3.39E-09	2.59E-09	6.95E-09	4.27E-11	2.59E-10	1.52E-10	4.53E-10
762	577564.1	4194101	5.94E-09	2.00E-08	1.56E-08	0.00E+00	4.15E-08	9.25E-10	3.22E-09	2.46E-09	6.61E-09	4.06E-11	2.46E-10	1.44E-10	4.31E-10
763	577571.4	4194106	5.78E-09	1.94E-08	1.52E-08	0.00E+00	4.04E-08	9.00E-10	3.13E-09	2.40E-09	6.43E-09	3.95E-11	2.39E-10	1.41E-10	4.19E-10
764	577580.2	4194120	5.72E-09	1.93E-08	1.50E-08	0.00E+00	4.00E-08	8.91E-10	3.10E-09	2.37E-09	6.37E-09	3.91E-11	2.37E-10	1.39E-10	4.15E-10
765	577583.3	4194138	5.91E-09	1.99E-08	1.55E-08	0.00E+00	4.13E-08	9.21E-10	3.21E-09	2.45E-09	6.58E-09	4.04E-11	2.45E-10	1.44E-10	4.29E-10
766	577584.9	4194146	5.99E-09	2.02E-08	1.57E-08	0.00E+00	4.19E-08	9.33E-10	3.25E-09	2.48E-09	6.67E-09	4.10E-11	2.48E-10	1.46E-10	4.35E-10
767	577588.1	4194164	6.14E-09	2.07E-08	1.61E-08	0.00E+00	4.29E-08	9.57E-10	3.33E-09	2.55E-09	6.83E-09	4.20E-11	2.54E-10	1.49E-10	4.46E-10
768	577591.2	4194182	6.26E-09	2.11E-08	1.64E-08	0.00E+00	4.38E-08	9.76E-10	3.40E-09	2.60E-09	6.97E-09	4.28E-11	2.59E-10	1.52E-10	4.55E-10
769	577594.3	4194199	6.35E-09	2.14E-08	1.67E-08	0.00E+00	4.44E-08	9.90E-10	3.45E-09	2.63E-09	7.07E-09	4.34E-11	2.63E-10	1.55E-10	4.61E-10
770	577595.9	4194208	6.38E-09	2.15E-08	1.68E-08	0.00E+00	4.46E-08	9.95E-10	3.46E-09	2.65E-09	7.10E-09	4.37E-11	2.64E-10	1.55E-10	4.63E-10
771	577602.2	4194243	6.30E-09	2.12E-08	1.66E-08	0.00E+00	4.41E-08	9.82E-10	3.42E-09	2.61E-09	7.02E-09	4.31E-11	2.61E-10	1.53E-10	4.58E-10
772	577605.3	4194261	5.99E-09	2.01E-08	1.57E-08	0.00E+00	4.19E-08	9.33E-10	3.25E-09	2.48E-09	6.66E-09	4.09E-11	2.48E-10	1.46E-10	4.35E-10
773	577606.9	4194270	5.85E-09	1.97E-08	1.54E-08	0.00E+00	4.09E-08	9.11E-10	3.17E-09	2.43E-09	6.51E-09	4.00E-11	2.42E-10	1.42E-10	4.25E-10
774	577610.1	4194288	5.55E-09	1.87E-08	1.46E-08	0.00E+00	3.88E-08	8.65E-10	3.01E-09	2.30E-09	6.18E-09	3.80E-11	2.30E-10	1.35E-10	4.03E-10
775	577613.2	4194305	5.34E-09	1.80E-08	1.40E-08	0.00E+00	3.73E-08	8.32E-10	2.90E-09	2.21E-09	5.95E-09	3.65E-11	2.21E-10	1.30E-10	3.88E-10
776	577614.8	4194314	5.23E-09	1.76E-08	1.37E-08	0.00E+00	3.66E-08	8.15E-10	2.84E-09	2.17E-09	5.83E-09	3.58E-11	2.17E-10	1.27E-10	3.80E-10
777	577616.3	4194323	5.14E-09	1.73E-08	1.35E-08	0.00E+00	3.59E-08	8.00E-10	2.79E-09	2.13E-09	5.72E-09	3.51E-11	2.13E-10	1.25E-10	3.73E-10
778	577380.6	4193973	6.96E-09	2.34E-08	1.83E-08	0.00E+00	4.86E-08	1.08E-09	3.78E-09	2.88E-09	7.74E-09	4.76E-11	2.88E-10	1.69E-10	5.05E-10
779	577371.6	4193971	6.88E-09	2.32E-08	1.81E-08	0.00E+00	4.81E-08	1.07E-09	3.73E-09	2.85E-09	7.66E-09	4.71E-11	2.85E-10	1.67E-10	5.00E-10
780	577362.5	4193968	6.80E-09	2.29E-08	1.78E-08	0.00E+00	4.75E-08	1.06E-09	3.69E-09	2.82E-09	7.56E-09	4.65E-11	2.82E-10	1.65E-10	4.93E-10
781	577353.5	4193966	6.70E-09	2.25E-08	1.76E-08	0.00E+00	4.68E-08	1.04E-09	3.64E-09	2.78E-09	7.46E-09	4.58E-11	2.78E-10	1.63E-10	4.86E-10
782	577344.5	4193964	6.60E-09	2.22E-08	1.73E-08	0.00E+00	4.61E-08	1.03E-09	3.58E-09	2.73E-09	7.34E-09	4.51E-11	2.73E-10	1.60E-10	4.79E-10
783	577399.5	4193971	6.76E-09	2.27E-08	1.77E-08	0.00E+00	4.72E-08	1.05E-09	3.67E-09	2.80E-09	7.52E-09	4.62E-11	2.80E-10	1.64E-10	4.90E-10
784	577407	4193976	6.92E-09	2.33E-08	1.82E-08	0.00E+00	4.84E-08	1.08E-09	3.76E-09	2.87E-09	7.71E-09	4.74E-11	2.87E-10	1.68E-10	5.03E-10
785	577414.5	4193981	7.07E-09	2.38E-08	1.86E-08	0.00E+00	4.94E-08	1.10E-09	3.84E-09	2.93E-09	7.87E-09	4.84E-11	2.93E-10	1.72E-10	5.13E-10
786	577422	4193987	7.19E-09	2.42E-08	1.89E-08	0.00E+00	5.03E-08	1.12E-09	3.90E-09	2.98E-09	8.01E-09	4.92E-11	2.98E-10	1.75E-10	5.22E-10
787	577429.5	4193992	7.29E-09	2.45E-08	1.91E-08	0.00E+00	5.10E-08	1.14E-09	3.96E-09	3.02E-09	8.11E-09	4.98E-11	3.02E-10	1.77E-10	5.29E-10
788	577437	4193998	7.35E-09	2.47E-08	1.93E-08	0.00E+00	5.14E-08	1.15E-09	3.99E-09	3.05E-09	8.18E-09	5.03E-11	3.05E-10	1.79E-10	5.34E-10
789	577444.5	4194003	7.39E-09	2.49E-08	1.94E-08	0.00E+00	5.17E-08	1.15E-09	4.01E-09	3.06E-09	8.22E-09	5.05E-11	3.06E-10	1.80E-10	5.36E-10
790	577452	4194009	7.39E-09	2.49E-08	1.94E-08	0.00E+00	5.17E-08	1.15E-09	4.01E-09	3.07E-09	8.23E-09	5.06E-11	3.06E-10	1.80E-10	5.37E-10
791	577459.5	4194014	7.37E-09	2.48E-08	1.94E-08	0.00E+00	5.15E-08	1.15E-09	4.00E-09	3.06E-09	8.21E-09	5.04E-11	3.05E-10	1.79E-10	5.35E-10
792	577467	4194019	7.33E-09	2.47E-08	1.92E-08	0.00E+00	5.12E-08	1.14E-09	3.98E-09	3.04E-09	8.15E-09	5.01E-11	3.03E-10	1.78E-10	5.32E-10
793	577474.5	4194025	7.26E-09	2.44E-08	1.91E-08	0.00E+00	5.07E-08	1.13E-09	3.94E-09	3.01E-09	8.08E-09	4.96E-11	3.01E-10	1.77E-10	5.27E-10
794	577482	4194030	7.17E-09	2.41E-08	1.88E-08	0.00E+00	5.02E-08	1.12E-09	3.89E-09	2.97E-09	7.99E-09	4.91E-11	2.97E-10	1.75E-10	5.21E-10
795	577489.5	4194036	7.08E-09	2.38E-08	1.86E-08	0.00E+00	4.95E-08	1.10E-09	3.84E-09	2.94E-09	7.88E-09	4.84E-11	2.93E-10	1.72E-10	5.14E-10
796	577497	4194041	6.97E-09	2.35E-08	1.83E-08	0.00E+00	4.88E-08	1.09E-09	3.78E-09	2.89E-09	7.76E-09	4.77E-11	2.89E-10	1.70E-10	5.06E-10
797	577504.6	4194046	6.86E-09	2.31E-08	1.80E-08	0.00E+00	4.79E-08	1.07E-09	3.72E-09	2.84E-09	7.63E-09	4.69E-11	2.84E-10	1.67E-10	4.98E-10
798	577512.1	4194052	6.73E-09	2.26E-08	1.77E-08	0.00E+00	4.70E-08	1.05E-09	3.65E-09	2.79E-09	7.49E-09	4.60E-11	2.79E-10	1.64E-10	4.88E-10
799	577519.6	4194057	6.59E-09	2.22E-08	1.73E-08	0.00E+00	4.61E-08	1.03E-09	3.58E-09	2.73E-09	7.34E-09	4.51E-11	2.73E-10	1.60E-10	4.79E-10
800	577527.1	4194063	6.45E-09	2.17E-08	1.69E-08	0.00E+00	4.51E-08	1.01E-09	3.50E-09	2.68E-09	7.18E-09	4.41E-11	2.67E-10	1.57E-10	4.68E-10
801	577534.6	4194068	6.31E-09	2.12E-08	1.66E-08	0.00E+00	4.41E-08	9.83E-10	3.42E-09	2.62E-09	7.02E-09	4.31E-11	2.61E-10	1.53E-10	4.58E-10
802	577542.1	4194073	6.16E-09	2.07E-08	1.62E-08	0.00E+00	4.31E-08	9.60E-10	3.34E-09	2.55E-09	6.86E-09	4.21E-11	2.55E-10	1.50E-10	4.47E-10
803	577549.6	4194079	6.02E-09	2.03E-08	1.58E-08	0.00E+00	4.21E-08	9.38E-10	3.27E-09	2.50E-09	6.70E-09	4.12E-11	2.49E-10	1.46E-10	4.37E-10
804	577557.1	4194084	5.88E-09	1.98E-08	1.54E-08	0.00E+00	4.11E-08	9.16E-10	3.19E-09	2.44E-09	6.54E-09	4.02E-11	2.43E-10	1.43E-10	4.27E-10
805	577564.6	4194090	5.73E-09	1.93E-08	1.50E-08	0.00E+00	4.01E-08	8.93E-10	3.11E-09	2.38E-09	6.38E-09	3.92E-11	2.37E-10	1.39E-10	4.16E-10
806	577572.1	4194095	5.58E-09	1.88E-08	1.47E-08	0.00E+00	3.90E-08	8.69E-10	3.03E-09	2.31E-09	6.21E-09	3.82E-11	2.31E-10	1.36E-10	4.05E-10
807	577579.6	4194100	5.43E-09	1.83E-08	1.43E-08	0.00E+00	3.79E-08	8.46E-10	2.95E-09	2.25E-09	6.04E-09	3.71E-11	2.25E-10	1.32E-10	3.94E-10
808	577588.7	4194115	5.37E-09	1.81E-08	1.41E-08	0.00E+00	3.76E-08	8.37E-10	2.92E-09	2.23E-09	5.98E-09	3.68E-11	2.23E-10	1.31E-10	3.90E-10
809	577590.3	4194124	5.47E-09	1.84E-08	1.44E-08	0.00E+00	3.82E-08	8.52E-10	2.97E-09	2.27E-09	6.09E-09	3.74E-11	2.26E-10	1.33E-10	3.97E-10
810	577592	4194133	5.56E-09	1.87E-08	1.46E-08	0.00E+00	3.88E-08	8.66E-10	3.02E-09	2.30E-09	6.18E-09	3.80E-11	2.30E-10	1.35E-10	4.03E-10
811	577593.6	4194142	5.64E-09	1.90E-08	1.48E-08	0.00E+00	3.94E-08	8.78E-10	3.06E-09	2.34E-09	6.27E-09	3.85E-11	2.33E-10	1.37E-10	4.09E-10
812	577595.2	4194151	5.71E-09	1.92E-08	1.50E-08	0.00E+00	3.99E-08	8.90E-10	3.10E-09	2.37E-09	6.36E-09	3.90E-11	2.37E-10	1.39E-10	4.14E-10
813	577596.8	4194160	5.78E-09	1.95E-08	1.52E-08	0.00E+00	4.04E-08	9.00E-10	3.14E-09	2.40E-09	6.43E-09	3.95E-11	2.39E-10	1.41E-10	4.20E-10
814	577598.4	4194170	5.84E-09	1.97E-08	1.53E-08	0.00E+00	4.08E-08	9.10E-10	3.17E-09	2.42E-09	6.50E-09	4.00E-11	2.42E-10	1.42E-10	4.24E-10
815	577600.1	4194179	5.90E-09	1.99E-08	1.55E-08	0.00E+00	4.12E-08	9.19E-10	3.20E-09	2.45E-09	6.57E-09	4.03E-11	2.44E-10	1.43E-10	4.28E-10
816	577601.7	4194188	5.95E-09	2.00E-08	1.56E-08	0.00E+00	4.16E-08	9.26E-10	3.23E-09	2.47E-09	6.62E-09	4.07E-11	2.46E-10	1.45E-10	4.32E-10

817	577603.3	4194197	5.99E-09	2.01E-08	1.57E-08	0.00E+00	4.18E-08	9.33E-10	3.25E-09	2.48E-09	6.66E-09	4.09E-11	2.48E-10	1.46E-10	4.34E-10
818	577604.9	4194206	6.01E-09	2.02E-08	1.58E-08	0.00E+00	4.20E-08	9.37E-10	3.26E-09	2.49E-09	6.69E-09	4.11E-11	2.49E-10	1.46E-10	4.37E-10
819	577611.4	4194242	5.96E-09	2.01E-08	1.57E-08	0.00E+00	4.17E-08	9.29E-10	3.24E-09	2.47E-09	6.64E-09	4.08E-11	2.47E-10	1.45E-10	4.33E-10
820	577613	4194251	5.81E-09	1.96E-08	1.53E-08	0.00E+00	4.07E-08	9.06E-10	3.16E-09	2.41E-09	6.47E-09	3.98E-11	2.41E-10	1.41E-10	4.22E-10
821	577614.7	4194261	5.68E-09	1.91E-08	1.49E-08	0.00E+00	3.97E-08	8.85E-10	3.08E-09	2.36E-09	6.32E-09	3.88E-11	2.35E-10	1.38E-10	4.12E-10
822	577616.3	4194270	5.56E-09	1.87E-08	1.46E-08	0.00E+00	3.89E-08	8.66E-10	3.02E-09	2.30E-09	6.19E-09	3.80E-11	2.30E-10	1.35E-10	4.03E-10
823	577617.9	4194279	5.43E-09	1.83E-08	1.43E-08	0.00E+00	3.80E-08	8.46E-10	2.95E-09	2.25E-09	6.05E-09	3.71E-11	2.25E-10	1.32E-10	3.94E-10
824	577619.5	4194288	5.31E-09	1.79E-08	1.39E-08	0.00E+00	3.71E-08	8.27E-10	2.88E-09	2.20E-09	5.91E-09	3.63E-11	2.20E-10	1.29E-10	3.86E-10
825	577621.2	4194297	5.23E-09	1.76E-08	1.37E-08	0.00E+00	3.65E-08	8.14E-10	2.84E-09	2.17E-09	5.82E-09	3.57E-11	2.16E-10	1.27E-10	3.79E-10
826	577622.8	4194306	5.13E-09	1.73E-08	1.35E-08	0.00E+00	3.59E-08	7.99E-10	2.78E-09	2.13E-09	5.71E-09	3.51E-11	2.12E-10	1.25E-10	3.72E-10
827	577624.4	4194315	5.02E-09	1.69E-08	1.32E-08	0.00E+00	3.51E-08	7.83E-10	2.73E-09	2.08E-09	5.59E-09	3.44E-11	2.08E-10	1.22E-10	3.65E-10
828	577626	4194324	4.92E-09	1.66E-08	1.29E-08	0.00E+00	3.44E-08	7.67E-10	2.67E-09	2.04E-09	5.48E-09	3.37E-11	2.04E-10	1.20E-10	3.57E-10
829	577627.6	4194333	4.81E-09	1.62E-08	1.26E-08	0.00E+00	3.36E-08	7.50E-10	2.61E-09	1.99E-09	5.36E-09	3.29E-11	1.99E-10	1.17E-10	3.49E-10
830	577392	4193965	6.57E-09	2.21E-08	1.73E-08	0.00E+00	4.59E-08	1.02E-09	3.57E-09	2.72E-09	7.32E-09	4.49E-11	2.72E-10	1.60E-10	4.77E-10
831	577383	4193963	6.52E-09	2.19E-08	1.71E-08	0.00E+00	4.55E-08	1.02E-09	3.54E-09	2.70E-09	7.25E-09	4.46E-11	2.70E-10	1.58E-10	4.73E-10
832	577373.9	4193961	6.44E-09	2.17E-08	1.69E-08	0.00E+00	4.50E-08	1.00E-09	3.50E-09	2.67E-09	7.17E-09	4.41E-11	2.67E-10	1.57E-10	4.68E-10
833	577364.9	4193959	6.36E-09	2.14E-08	1.67E-08	0.00E+00	4.45E-08	9.91E-10	3.45E-09	2.64E-09	7.08E-09	4.35E-11	2.63E-10	1.55E-10	4.62E-10
834	577355.9	4193956	6.27E-09	2.11E-08	1.65E-08	0.00E+00	4.38E-08	9.77E-10	3.40E-09	2.60E-09	6.98E-09	4.29E-11	2.60E-10	1.53E-10	4.55E-10
835	577346.8	4193954	6.18E-09	2.08E-08	1.62E-08	0.00E+00	4.32E-08	9.62E-10	3.35E-09	2.56E-09	6.87E-09	4.22E-11	2.56E-10	1.50E-10	4.48E-10
836	577260.5	4194242	2.80E-07	9.41E-07	7.34E-07	0.00E+00	1.96E-06	4.36E-08	1.52E-07	1.16E-07	3.11E-07	1.91E-09	1.16E-08	6.80E-09	2.03E-08
837	577262.7	4194232	2.28E-07	7.67E-07	5.99E-07	0.00E+00	1.59E-06	3.55E-08	1.24E-07	9.45E-08	2.54E-07	1.56E-09	9.44E-09	5.55E-09	1.65E-08
838	577265	4194223	1.86E-07	6.24E-07	4.87E-07	0.00E+00	1.30E-06	2.89E-08	1.01E-07	7.69E-08	2.06E-07	1.27E-09	7.68E-09	4.51E-09	1.35E-08
839	577267.3	4194213	1.42E-07	4.76E-07	3.72E-07	0.00E+00	9.89E-07	2.20E-08	7.68E-08	5.87E-08	1.58E-07	9.68E-10	5.86E-09	3.44E-09	1.03E-08
840	577269.6	4194203	1.08E-07	3.65E-07	2.85E-07	0.00E+00	7.58E-07	1.69E-08	5.88E-08	4.49E-08	1.21E-07	7.41E-10	4.49E-09	2.64E-09	7.87E-09
841	577271.9	4194193	8.60E-08	2.90E-07	2.26E-07	0.00E+00	6.02E-07	1.34E-08	4.67E-08	3.57E-08	9.58E-08	5.88E-10	3.56E-09	2.09E-09	6.25E-09
842	577274.2	4194184	7.11E-08	2.39E-07	1.87E-07	0.00E+00	4.97E-07	1.11E-08	3.86E-08	2.95E-08	7.92E-08	4.86E-10	2.95E-09	1.73E-09	5.16E-09
843	577281	4194155	4.34E-08	1.46E-07	1.14E-07	0.00E+00	3.04E-07	6.76E-09	2.36E-08	1.80E-08	4.83E-08	2.97E-10	1.80E-09	1.06E-09	3.15E-09
844	577283.3	4194145	3.77E-08	1.27E-07	9.89E-08	0.00E+00	2.63E-07	5.87E-09	2.04E-08	1.56E-08	4.19E-08	2.58E-10	1.56E-09	9.16E-10	2.73E-09
845	577285.6	4194135	3.29E-08	1.11E-07	8.65E-08	0.00E+00	2.30E-07	5.13E-09	1.79E-08	1.37E-08	3.67E-08	2.25E-10	1.36E-09	8.01E-10	2.39E-09
846	577295.4	4194127	2.98E-08	1.00E-07	7.83E-08	0.00E+00	2.08E-07	4.64E-09	1.62E-08	1.24E-08	3.32E-08	2.04E-10	1.23E-09	7.25E-10	2.16E-09
847	577280.3	4194124	2.79E-08	9.40E-08	7.33E-08	0.00E+00	1.95E-07	4.35E-09	1.52E-08	1.16E-08	3.11E-08	1.91E-10	1.16E-09	6.79E-10	2.03E-09
848	577297.7	4194117	2.63E-08	8.87E-08	6.92E-08	0.00E+00	1.84E-07	4.10E-09	1.43E-08	1.09E-08	2.93E-08	1.80E-10	1.09E-09	6.41E-10	1.91E-09
849	577282.5	4194114	2.48E-08	8.33E-08	6.50E-08	0.00E+00	1.73E-07	3.86E-09	1.34E-08	1.03E-08	2.76E-08	1.69E-10	1.03E-09	6.02E-10	1.80E-09
850	577300	4194108	2.34E-08	7.89E-08	6.15E-08	0.00E+00	1.64E-07	3.65E-09	1.27E-08	9.72E-09	2.61E-08	1.60E-10	9.71E-10	5.70E-10	1.70E-09
851	577284.8	4194104	2.21E-08	7.44E-08	5.80E-08	0.00E+00	1.54E-07	3.44E-09	1.20E-08	9.16E-09	2.46E-08	1.51E-10	9.15E-10	5.38E-10	1.60E-09
852	577302.2	4194098	2.10E-08	7.05E-08	5.50E-08	0.00E+00	1.47E-07	3.27E-09	1.14E-08	8.69E-09	2.33E-08	1.43E-10	8.68E-10	5.10E-10	1.52E-09
853	577287.1	4194094	1.99E-08	6.68E-08	5.21E-08	0.00E+00	1.39E-07	3.09E-09	1.08E-08	8.23E-09	2.21E-08	1.36E-10	8.22E-10	4.83E-10	1.44E-09
854	577304.5	4194088	1.88E-08	6.34E-08	4.95E-08	0.00E+00	1.32E-07	2.93E-09	1.02E-08	7.81E-09	2.10E-08	1.29E-10	7.80E-10	4.58E-10	1.37E-09
855	577289.4	4194085	1.79E-08	6.03E-08	4.70E-08	0.00E+00	1.25E-07	2.79E-09	9.72E-09	7.42E-09	1.99E-08	1.22E-10	7.42E-10	4.36E-10	1.30E-09
856	577306.8	4194078	1.70E-08	5.72E-08	4.46E-08	0.00E+00	1.19E-07	2.65E-09	9.22E-09	7.05E-09	1.89E-08	1.16E-10	7.04E-10	4.14E-10	1.23E-09
857	577291.7	4194075	1.62E-08	5.46E-08	4.26E-08	0.00E+00	1.13E-07	2.53E-09	8.80E-09	6.72E-09	1.81E-08	1.11E-10	6.72E-10	3.95E-10	1.18E-09
858	577309.1	4194069	1.54E-08	5.19E-08	4.05E-08	0.00E+00	1.08E-07	2.40E-09	8.37E-09	6.39E-09	1.72E-08	1.05E-10	6.39E-10	3.75E-10	1.12E-09
859	577294	4194065	1.48E-08	4.97E-08	3.87E-08	0.00E+00	1.03E-07	2.30E-09	8.01E-09	6.12E-09	1.64E-08	1.01E-10	6.11E-10	3.59E-10	1.07E-09
860	577311.4	4194059	1.41E-08	4.73E-08	3.69E-08	0.00E+00	9.82E-08	2.19E-09	7.62E-09	5.83E-09	1.56E-08	9.61E-11	5.82E-10	3.42E-10	1.02E-09
861	577296.2	4194055	1.35E-08	4.53E-08	3.54E-08	0.00E+00	9.42E-08	2.10E-09	7.31E-09	5.58E-09	1.50E-08	9.21E-11	5.58E-10	3.28E-10	9.78E-10
862	577313.7	4194049	1.28E-08	4.32E-08	3.37E-08	0.00E+00	8.98E-08	2.00E-09	6.97E-09	5.33E-09	1.43E-08	8.78E-11	5.32E-10	3.12E-10	9.32E-10
863	577298.5	4194046	1.23E-08	4.15E-08	3.24E-08	0.00E+00	8.62E-08	1.92E-09	6.69E-09	5.11E-09	1.37E-08	8.44E-11	5.11E-10	3.00E-10	8.95E-10
864	577315.9	4194039	1.18E-08	3.97E-08	3.09E-08	0.00E+00	8.24E-08	1.84E-09	6.39E-09	4.88E-09	1.31E-08	8.06E-11	4.88E-10	2.87E-10	8.55E-10
865	577300.8	4194036	1.13E-08	3.81E-08	2.97E-08	0.00E+00	7.92E-08	1.76E-09	6.15E-09	4.70E-09	1.26E-08	7.75E-11	4.69E-10	2.76E-10	8.22E-10
866	577318.2	4194030	1.08E-08	3.65E-08	2.85E-08	0.00E+00	7.58E-08	1.69E-09	5.88E-09	4.49E-09	1.21E-08	7.41E-11	4.49E-10	2.64E-10	7.87E-10
867	577303.1	4194026	1.04E-08	3.51E-08	2.74E-08	0.00E+00	7.30E-08	1.63E-09	5.66E-09	4.33E-09	1.16E-08	7.14E-11	4.32E-10	2.54E-10	7.58E-10
868	577320.5	4194020	1.00E-08	3.37E-08	2.63E-08	0.00E+00	6.99E-08	1.56E-09	5.43E-09	4.15E-09	1.11E-08	6.84E-11	4.14E-10	2.43E-10	7.26E-10
869	577305.4	4194016	9.64E-09	3.24E-08	2.53E-08	0.00E+00	6.74E-08	1.50E-09	5.23E-09	4.00E-09	1.07E-08	6.59E-11	3.99E-10	2.35E-10	7.00E-10
870	577322.8	4194010	9.25E-09	3.11E-08	2.43E-08	0.00E+00	6.46E-08	1.44E-09	5.02E-09	3.83E-09	1.03E-08	6.32E-11	3.83E-10	2.25E-10	6.71E-10
871	577307.6	4194007	8.93E-09	3.00E-08	2.34E-08	0.00E+00	6.24E-08	1.39E-09	4.84E-09	3.70E-09	9.94E-09	6.11E-11	3.70E-10	2.17E-10	6.48E-10
872	577325.1	4194000	8.57E-09	2.88E-08	2.25E-08	0.00E+00	5.99E-08	1.34E-09	4.65E-09	3.55E-09	9.54E-09	5.86E-11	3.55E-10	2.08E-10	6.22E-10
873	577309.9	4193997	8.29E-09	2.79E-08	2.18E-08	0.00E+00	5.79E-08	1.29E-09	4.50E-09	3.44E-09	9.22E-09	5.67E-11	3.43E-10	2.02E-10	6.02E-10
874	577327.3	4193991	7.96E-09	2.68E-08	2.09E-08	0.00E+00	5.57E-08	1.24E-09	4.32E-09	3.30E-09	8.87E-09	5.45E-11	3.30E-10	1.94E-10	5.78E-10
875	577312.2	4193987	7.71E-09	2.59E-08	2.02E-08	0.00E+00	5.39E-08	1.20E-09	4.18E-09	3.20E-09	8.58E-09	5.27E-11	3.19E-10	1.88E-10	5.60E-10
876	577329.6	4193981	7.42E-09	2.50E-08	1.95E-08	0.00E+00	5.19E-08	1.16E-09	4.03E-09	3.08E-09	8.26E-09	5.07E-11	3.07E-10	1.80E-10	5.39E-10
877	577314.5	4193977	7.19E-09	2.42E-08	1.89E-08	0.00E+00	5.03E-08	1.12E-09	3.90E-09	2.98E-09	8.00E-09	4.92E-11	2.98E-10	1.75E-10	5.22E-10
878	577331.9	4193971	6.92E-09	2.33E-08	1.82E-08	0.00E+00	4.84E-08	1.08E-09	3.76E-09	2.87E-09	7.71E-09	4.74E-11	2.87E-10	1.68E-10	5.03E-10
879	577316.8	4193968	6.72E-09	2.26E-08	1.77E-08	0.00E+00	4.70E-08	1.05E-09	3.65E-09	2.79E-09	7.48E-09	4.60E-11	2.78E-10	1.64E-10	4.88E-10
880	577334.2	4193962	6.48E-09	2.18E-08	1.70E-08	0.00E+00	4.53E-08	1.01E-09	3.51E-09	2.69E-09	7.21E-09	4.43E-11	2.68E-10	1.58E-10	4.70E-10
881	577319	4193958	6.30E-09	2.12E-08	1.65E-08	0.00E+00	4.40E-08	9.81E-10	3.42E-09	2.61E-09	7.01E-09	4.31E-11	2.61E-10	1.53E-10	4.57E-10
882	577336.5	4193952	6.07E-09	2.04E-08	1.59E-08	0.00E+00	4.24E-08	9.45E-10	3.29E-09	2.52E-09	6.75E-09	4.15E-11	2.51E-10	1.48E-10	4.40E-10
883	577321.3	4193948	5.90E-09	1.99E-08	1.55E-08	0.00E+00	4.13E-08	9.20E-10	3.20E-09	2.45E-09	6.57E-09	4.04E-11	2.45E-10	1.44E-10	4.29E-10
884	577232.1	4194246	1.49E-07	5.00E-07	3.90E-07	0.00E+00	1.04E-06	2.31E-08	8.06E-08	6.16E-08	1.65E-07	1.02E-09	6.15E-09	3.61E-09	1.08E-08
885	577243.3	4194238	1.76E-07	5.92E-07	4.62E-07	0.00E+00	1.23E-06	2.74E-08	9.55E-08	7.30E-08	1.96E-07	1.20E-09	7.29E-09	4.28E-09	1.28E-08
886	577234.1	4194236	1.41E-07	4.74E-07	3.70E-07	0.00E+00	9.85E-07	2.20E-08	7.65E-08	5.84E-08	1.57E-07	9.64E-10	5.84E-09	3.43E-09	1.02E-08
887	577245.3	4194229	1.55E-07	5.23E-07	4.08E-07	0.00E+00	1.09E-06	2.42E-08	8.43E-08	6.44E-08	1.73E-07	1.06E-09	6.44E-09	3.78E-09	1.13E-08
888	577236.2	4194227	1.29E-07	4.34E-07	3.39E-07	0.00E+00	9.01E-07	2.01E-08	7.00E-08	5.35E-08	1.44E-07	8.82E-10	5.34E-09	3.14E-09	9.36E-09
889	577247.4	4194219	1.37E-07	4.62E-07	3.60E-07	0.00E+00	9.60E-07	2.14E-08	7.45E-08	5.69E-08	1.53E-07	9.39E-10	5.69E-09	3.34E-09	9.96E-09
890	577238.2	4194217	1.18E-07	3.97E-07	3.10E-07	0.00E+00	8.25E-07	1.84E-08	6.40E-08	4.89E-08	1.31E-07	8.07E-10	4.89E-09	2.87E-09	8.56E-09
891	577249.4	4194209	1.16E-07	3.89E-07	3.04E-07	0.00E+00	8.08E-07	1.80E-08	6.27E-08	4.79E-08	1.29E-07	7.91E-10	4.79E-09	2.81E-09	8.39E-09
892	577240.3	4194207	1.03E-07	3.45E-07	2.69E-07	0.00E+00	7.17E-07	1.60E-08	5.56E-08	4.25E-08	1.14E-07	7.01E-10	4.25E-09	2.49E-09	7.44E-09
893	577260.7	4194201	9.93E-08	3.34E-07	2.61E-07	0.00E+00	6.95E-07	1.55E-08	5.39E-08	4.12E-08	1.11E-07	6.79E-10	4.12E-09	2.42E-09	7.21E-09
894	577251.5	4194199	9.02E-08	3.03E-07	2.37E-07	0.00E+00	6.30E-07	1.40E-08	4.89E-08	3.74E-08	1.00E-07	6.17E-10	3.73E-09	2.19E-09	6.54E-09
895	577242.3	4194197	8.18E-08	2.75E-07	2.15E-07	0.00E+00	5.72E-07	1.28E-08	4.44E-08	3.39E-08	9.11E-08	5.60E-10	3.39E-09	1.99E-09	5.94E-09
896	577262.7	4194191	7.96E-08	2.68E-07	2.09E-07	0.00E+00	5.57E-07	1.24E-08	4.32E-08	3.30E-08	8.86E-08	5.45E-10	3.30E-09	1.94E-09	5.78E-09
897	577253.6	4194189	7.34E-08	2.47E-07	1.93E-07	0.00E+00	5.13E-07	1.14E-08	3.98E-08	3.04E-08	8.17E-08	5.02E-10	3.04E-09	1.79E-09	5.33E-09
898	577244.4	4194187	6.79E-08	2.28E-07	1.78E-07	0.00E+00	4.74E-07	1.06E-08	3.68E-08	2.81E-08	7.55E-08	4.64E-10	2.81E-09	1.65E-09	4.93E-09

899	577264.8	4194182	6.64E-08	2.23E-07	1.74E-07	0.00E+00	4.64E-07	1.03E-08	3.60E-08	2.75E-08	7.39E-08	4.54E-10	2.75E-09	1.61E-09	4.82E-09
900	577255.6	4194180	6.18E-08	2.08E-07	1.62E-07	0.00E+00	4.32E-07	9.63E-09	3.35E-08	2.56E-08	6.88E-08	4.22E-10	2.56E-09	1.50E-09	4.48E-09
901	577246.4	4194178	5.73E-08	1.93E-07	1.51E-07	0.00E+00	4.01E-07	8.93E-09	3.11E-08	2.38E-08	6.38E-08	3.92E-10	2.38E-09	1.39E-09	4.16E-09
902	577270.9	4194152	4.10E-08	1.38E-07	1.08E-07	0.00E+00	2.87E-07	6.39E-09	2.23E-08	1.70E-08	4.57E-08	2.81E-10	1.70E-09	9.98E-10	2.98E-09
903	577261.8	4194150	3.88E-08	1.31E-07	1.02E-07	0.00E+00	2.72E-07	6.05E-09	2.11E-08	1.61E-08	4.32E-08	2.66E-10	1.61E-09	9.45E-10	2.82E-09
904	577252.6	4194148	3.66E-08	1.23E-07	9.62E-08	0.00E+00	2.56E-07	5.71E-09	1.99E-08	1.52E-08	4.08E-08	2.50E-10	1.52E-09	8.91E-10	2.66E-09
905	577273	4194142	3.57E-08	1.20E-07	9.36E-08	0.00E+00	2.49E-07	5.56E-09	1.94E-08	1.48E-08	3.97E-08	2.44E-10	1.48E-09	8.68E-10	2.59E-09
906	577263.8	4194140	3.39E-08	1.14E-07	8.89E-08	0.00E+00	2.37E-07	5.28E-09	1.84E-08	1.40E-08	3.77E-08	2.32E-10	1.40E-09	8.24E-10	2.46E-09
907	577254.7	4194139	3.20E-08	1.08E-07	8.41E-08	0.00E+00	2.24E-07	4.99E-09	1.74E-08	1.33E-08	3.57E-08	2.19E-10	1.33E-09	7.79E-10	2.33E-09
908	577275.1	4194133	3.12E-08	1.05E-07	8.20E-08	0.00E+00	2.18E-07	4.87E-09	1.69E-08	1.29E-08	3.48E-08	2.14E-10	1.29E-09	7.60E-10	2.27E-09
909	577265.9	4194131	2.97E-08	1.00E-07	7.81E-08	0.00E+00	2.08E-07	4.63E-09	1.61E-08	1.23E-08	3.31E-08	2.03E-10	1.23E-09	7.23E-10	2.16E-09
910	577256.7	4194129	2.82E-08	9.50E-08	7.41E-08	0.00E+00	1.97E-07	4.40E-09	1.53E-08	1.17E-08	3.14E-08	1.93E-10	1.17E-09	6.87E-10	2.05E-09
911	577267.9	4194121	2.63E-08	8.84E-08	6.90E-08	0.00E+00	1.84E-07	4.09E-09	1.43E-08	1.09E-08	2.92E-08	1.80E-10	1.09E-09	6.39E-10	1.91E-09
912	577258.8	4194119	2.50E-08	8.43E-08	6.58E-08	0.00E+00	1.75E-07	3.90E-09	1.36E-08	1.04E-08	2.79E-08	1.71E-10	1.04E-09	6.09E-10	1.82E-09
913	577270	4194111	2.34E-08	7.87E-08	6.14E-08	0.00E+00	1.63E-07	3.64E-09	1.27E-08	9.69E-09	2.60E-08	1.60E-10	9.68E-10	5.69E-10	1.70E-09
914	577260.8	4194109	2.23E-08	7.52E-08	5.87E-08	0.00E+00	1.56E-07	3.48E-09	1.21E-08	9.26E-09	2.49E-08	1.53E-10	9.25E-10	5.43E-10	1.62E-09
915	577272.1	4194101	2.09E-08	7.04E-08	5.50E-08	0.00E+00	1.46E-07	3.26E-09	1.14E-08	8.68E-09	2.33E-08	1.43E-10	8.67E-10	5.09E-10	1.52E-09
916	577262.9	4194099	2.01E-08	6.76E-08	5.27E-08	0.00E+00	1.40E-07	3.13E-09	1.09E-08	8.32E-09	2.23E-08	1.37E-10	8.32E-10	4.88E-10	1.46E-09
917	577274.1	4194092	1.89E-08	6.35E-08	4.95E-08	0.00E+00	1.32E-07	2.94E-09	1.02E-08	7.82E-09	2.10E-08	1.29E-10	7.81E-10	4.59E-10	1.37E-09
918	577264.9	4194090	1.81E-08	6.10E-08	4.76E-08	0.00E+00	1.27E-07	2.82E-09	9.84E-09	7.52E-09	2.02E-08	1.24E-10	7.51E-10	4.41E-10	1.32E-09
919	577276.2	4194082	1.71E-08	5.74E-08	4.48E-08	0.00E+00	1.19E-07	2.66E-09	9.25E-09	7.07E-09	1.90E-08	1.17E-10	7.06E-10	4.15E-10	1.24E-09
920	577267	4194080	1.64E-08	5.53E-08	4.32E-08	0.00E+00	1.15E-07	2.56E-09	8.92E-09	6.82E-09	1.83E-08	1.12E-10	6.81E-10	4.00E-10	1.19E-09
921	577278.2	4194072	1.55E-08	5.21E-08	4.07E-08	0.00E+00	1.08E-07	2.41E-09	8.40E-09	6.42E-09	1.72E-08	1.06E-10	6.42E-10	3.77E-10	1.12E-09
922	577269.1	4194070	1.50E-08	5.04E-08	3.93E-08	0.00E+00	1.05E-07	2.33E-09	8.12E-09	6.20E-09	1.67E-08	1.02E-10	6.20E-10	3.64E-10	1.09E-09
923	577280.3	4194062	1.41E-08	4.75E-08	3.71E-08	0.00E+00	9.87E-08	2.20E-09	7.66E-09	5.85E-09	1.57E-08	9.66E-11	5.85E-10	3.43E-10	1.02E-09
924	577271.1	4194060	1.37E-08	4.60E-08	3.59E-08	0.00E+00	9.55E-08	2.13E-09	7.41E-09	5.67E-09	1.52E-08	9.34E-11	5.66E-10	3.32E-10	9.92E-10
925	577282.3	4194052	1.29E-08	4.35E-08	3.39E-08	0.00E+00	9.03E-08	2.01E-09	7.01E-09	5.35E-09	1.44E-08	8.83E-11	5.35E-10	3.14E-10	9.37E-10
926	577273.2	4194050	1.25E-08	4.21E-08	3.29E-08	0.00E+00	8.75E-08	1.95E-09	6.79E-09	5.19E-09	1.39E-08	8.56E-11	5.19E-10	3.05E-10	9.09E-10
927	577284.4	4194043	1.18E-08	3.99E-08	3.11E-08	0.00E+00	8.28E-08	1.84E-09	6.43E-09	4.91E-09	1.32E-08	8.10E-11	4.91E-10	2.88E-10	8.60E-10
928	577275.2	4194041	1.15E-08	3.87E-08	3.02E-08	0.00E+00	8.04E-08	1.79E-09	6.24E-09	4.77E-09	1.28E-08	7.86E-11	4.76E-10	2.80E-10	8.35E-10
929	577286.4	4194033	1.09E-08	3.66E-08	2.86E-08	0.00E+00	7.61E-08	1.70E-09	5.91E-09	4.51E-09	1.21E-08	7.45E-11	4.51E-10	2.65E-10	7.90E-10
930	577277.3	4194031	1.06E-08	3.56E-08	2.78E-08	0.00E+00	7.40E-08	1.65E-09	5.75E-09	4.39E-09	1.18E-08	7.24E-11	4.39E-10	2.58E-10	7.69E-10
931	577288.5	4194023	1.00E-08	3.38E-08	2.64E-08	0.00E+00	7.02E-08	1.56E-09	5.45E-09	4.16E-09	1.12E-08	6.87E-11	4.16E-10	2.44E-10	7.29E-10
932	577279.3	4194021	9.78E-09	3.29E-08	2.57E-08	0.00E+00	6.84E-08	1.52E-09	5.31E-09	4.05E-09	1.09E-08	6.69E-11	4.05E-10	2.38E-10	7.10E-10
933	577290.6	4194013	9.29E-09	3.12E-08	2.44E-08	0.00E+00	6.49E-08	1.45E-09	5.04E-09	3.85E-09	1.03E-08	6.35E-11	3.85E-10	2.26E-10	6.74E-10
934	577281.4	4194011	9.06E-09	3.05E-08	2.38E-08	0.00E+00	6.33E-08	1.41E-09	4.92E-09	3.76E-09	1.01E-08	6.20E-11	3.75E-10	2.20E-10	6.58E-10
935	577292.6	4194003	8.61E-09	2.90E-08	2.26E-08	0.00E+00	6.02E-08	1.34E-09	4.67E-09	3.57E-09	9.59E-09	5.89E-11	3.57E-10	2.10E-10	6.25E-10
936	577283.4	4194002	8.42E-09	2.83E-08	2.21E-08	0.00E+00	5.88E-08	1.31E-09	4.57E-09	3.49E-09	9.37E-09	5.76E-11	3.49E-10	2.05E-10	6.11E-10
937	577294.7	4193994	8.01E-09	2.69E-08	2.10E-08	0.00E+00	5.60E-08	1.25E-09	4.34E-09	3.32E-09	8.91E-09	5.48E-11	3.32E-10	1.95E-10	5.81E-10
938	577285.5	4193992	7.83E-09	2.64E-08	2.06E-08	0.00E+00	5.48E-08	1.22E-09	4.25E-09	3.25E-09	8.72E-09	5.36E-11	3.25E-10	1.91E-10	5.69E-10
939	577296.7	4193984	7.46E-09	2.51E-08	1.96E-08	0.00E+00	5.21E-08	1.16E-09	4.05E-09	3.09E-09	8.30E-09	5.10E-11	3.09E-10	1.81E-10	5.41E-10
940	577287.6	4193982	7.31E-09	2.46E-08	1.92E-08	0.00E+00	5.11E-08	1.14E-09	3.96E-09	3.03E-09	8.13E-09	5.00E-11	3.03E-10	1.78E-10	5.30E-10
941	577298.8	4193974	6.96E-09	2.34E-08	1.83E-08	0.00E+00	4.87E-08	1.08E-09	3.78E-09	2.89E-09	7.75E-09	4.76E-11	2.88E-10	1.69E-10	5.05E-10
942	577289.6	4193972	6.83E-09	2.30E-08	1.79E-08	0.00E+00	4.77E-08	1.06E-09	3.70E-09	2.83E-09	7.60E-09	4.67E-11	2.83E-10	1.66E-10	4.95E-10
943	577300.8	4193964	6.51E-09	2.19E-08	1.71E-08	0.00E+00	4.55E-08	1.01E-09	3.53E-09	2.70E-09	7.25E-09	4.45E-11	2.70E-10	1.58E-10	4.73E-10
944	577291.7	4193962	6.39E-09	2.15E-08	1.68E-08	0.00E+00	4.47E-08	9.96E-10	3.47E-09	2.65E-09	7.11E-09	4.37E-11	2.65E-10	1.55E-10	4.64E-10
945	577302.9	4193955	6.10E-09	2.05E-08	1.60E-08	0.00E+00	4.27E-08	9.51E-10	3.31E-09	2.53E-09	6.79E-09	4.17E-11	2.53E-10	1.49E-10	4.43E-10
946	577293.7	4193953	5.99E-09	2.02E-08	1.57E-08	0.00E+00	4.19E-08	9.34E-10	3.25E-09	2.49E-09	6.67E-09	4.10E-11	2.48E-10	1.46E-10	4.35E-10
947	577304.9	4193945	5.73E-09	1.93E-08	1.51E-08	0.00E+00	4.01E-08	8.93E-10	3.11E-09	2.38E-09	6.38E-09	3.92E-11	2.37E-10	1.39E-10	4.16E-10
948	577295.8	4193943	5.63E-09	1.90E-08	1.48E-08	0.00E+00	3.94E-08	8.78E-10	3.06E-09	2.34E-09	6.27E-09	3.85E-11	2.33E-10	1.37E-10	4.09E-10
949	577222.1	4194250	1.16E-07	3.91E-07	3.05E-07	0.00E+00	8.12E-07	1.81E-08	6.30E-08	4.81E-08	1.29E-07	7.94E-10	4.81E-09	2.82E-09	8.43E-09
950	577213.8	4194245	9.68E-08	3.26E-07	2.54E-07	0.00E+00	6.77E-07	1.51E-08	5.25E-08	4.01E-08	1.08E-07	6.62E-10	4.01E-09	2.35E-09	7.03E-09
951	577221	4194239	1.09E-07	3.67E-07	2.86E-07	0.00E+00	7.62E-07	1.70E-08	5.91E-08	4.52E-08	1.21E-07	7.45E-10	4.51E-09	2.65E-09	7.91E-09
952	577205.5	4194239	8.20E-08	2.76E-07	2.15E-07	0.00E+00	5.73E-07	1.28E-08	4.45E-08	3.40E-08	9.12E-08	5.61E-10	3.39E-09	1.99E-09	5.95E-09
953	577212.5	4194233	9.14E-08	3.08E-07	2.40E-07	0.00E+00	6.39E-07	1.42E-08	4.96E-08	3.79E-08	1.02E-07	6.25E-10	3.79E-09	2.22E-09	6.64E-09
954	577220.2	4194228	9.95E-08	3.35E-07	2.61E-07	0.00E+00	6.96E-07	1.55E-08	5.40E-08	4.12E-08	1.11E-07	6.80E-10	4.12E-09	2.42E-09	7.22E-09
955	577197.2	4194233	7.00E-08	2.36E-07	1.84E-07	0.00E+00	4.90E-07	1.09E-08	3.80E-08	2.90E-08	7.80E-08	4.79E-10	2.90E-09	1.70E-09	5.08E-09
956	577204.3	4194228	7.76E-08	2.61E-07	2.04E-07	0.00E+00	5.43E-07	1.21E-08	4.21E-08	3.22E-08	8.64E-08	5.31E-10	3.22E-09	1.89E-09	5.64E-09
957	577211.7	4194222	8.45E-08	2.84E-07	2.22E-07	0.00E+00	5.91E-07	1.32E-08	4.58E-08	3.50E-08	9.40E-08	5.78E-10	3.50E-09	2.05E-09	6.13E-09
958	577220.2	4194218	9.30E-08	3.13E-07	2.44E-07	0.00E+00	6.50E-07	1.45E-08	5.05E-08	3.85E-08	1.03E-07	6.36E-10	3.85E-09	2.26E-09	6.75E-09
959	577229.2	4194218	1.05E-07	3.53E-07	2.75E-07	0.00E+00	7.33E-07	1.63E-08	5.69E-08	4.35E-08	1.17E-07	7.17E-10	4.34E-09	2.55E-09	7.61E-09
960	577188.9	4194228	6.05E-08	2.04E-07	1.59E-07	0.00E+00	4.23E-07	9.43E-09	3.28E-08	2.51E-08	6.74E-08	4.14E-10	2.51E-09	1.47E-09	4.39E-09
961	577196	4194222	6.66E-08	2.24E-07	1.75E-07	0.00E+00	4.66E-07	1.04E-08	3.61E-08	2.76E-08	7.41E-08	4.55E-10	2.76E-09	1.62E-09	4.83E-09
962	577203.1	4194216	7.20E-08	2.42E-07	1.89E-07	0.00E+00	5.03E-07	1.12E-08	3.91E-08	2.98E-08	8.01E-08	4.92E-10	2.98E-09	1.75E-09	5.23E-09
963	577210.1	4194211	7.57E-08	2.55E-07	1.99E-07	0.00E+00	5.29E-07	1.18E-08	4.11E-08	3.14E-08	8.43E-08	5.18E-10	3.14E-09	1.84E-09	5.50E-09
964	577219.3	4194209	8.36E-08	2.81E-07	2.19E-07	0.00E+00	5.84E-07	1.30E-08	4.53E-08	3.46E-08	9.30E-08	5.71E-10	3.46E-09	2.03E-09	6.07E-09
965	577228.4	4194208	9.24E-08	3.11E-07	2.43E-07	0.00E+00	6.46E-07	1.44E-08	5.02E-08	3.83E-08	1.03E-07	6.32E-10	3.83E-09	2.25E-09	6.71E-09
966	577180.6	4194222	5.25E-08	1.77E-07	1.38E-07	0.00E+00	3.67E-07	8.19E-09	2.85E-08	2.18E-08	5.85E-08	3.59E-10	2.18E-09	1.28E-09	3.81E-09
967	577187.7	4194216	5.74E-08	1.93E-07	1.51E-07	0.00E+00	4.01E-07	8.94E-09	3.11E-08	2.38E-08	6.39E-08	3.92E-10	2.38E-09	1.40E-09	4.17E-09
968	577195.2	4194210	6.15E-08	2.07E-07	1.62E-07	0.00E+00	4.30E-07	9.58E-09	3.34E-08	2.55E-08	6.85E-08	4.21E-10	2.55E-09	1.50E-09	4.46E-09
969	577202.3	4194205	6.45E-08	2.17E-07	1.69E-07	0.00E+00	4.51E-07	1.01E-08	3.50E-08	2.67E-08	7.18E-08	4.41E-10	2.67E-09	1.57E-09	4.68E-09
970	577210.3	4194200	6.73E-08	2.27E-07	1.77E-07	0.00E+00	4.71E-07	1.05E-08	3.65E-08	2.79E-08	7.49E-08	4.60E-10	2.79E-09	1.64E-09	4.89E-09
971	577219.4	4194199	7.26E-08	2.44E-07	1.91E-07	0.00E+00	5.07E-07	1.13E-08	3.94E-08	3.01E-08	8.08E-08	4.96E-10	3.01E-09	1.77E-09	5.27E-09
972	577228.5	4194199	7.70E-08	2.59E-07	2.02E-07	0.00E+00	5.38E-07	1.20E-08	4.18E-08	3.19E-08	8.57E-08	5.27E-10	3.19E-09	1.87E-09	5.59E-09
973	577172.4	4194217	4.56E-08	1.53E-07	1.20E-07	0.00E+00	3.18E-07	7.10E-09	2.47E-08	1.89E-08	5.07E-08	3.12E-10	1.89E-09	1.11E-09	3.31E-09
974	577179.5	4194211	4.94E-08	1.66E-07	1.30E-07	0.00E+00	3.46E-07	7.70E-09	2.68E-08	2.05E-08	5.50E-08	3.38E-10	2.05E-09	1.20E-09	3.59E-09
975	577186.5	4194205	5.26E-08	1.77E-07	1.38E-07	0.00E+00	3.68E-07	8.20E-09	2.86E-08	2.18E-08	5.86E-08	3.60E-10	2.18E-09	1.28E-09	3.82E-09
976	577193.6	4194199	5.50E-08	1.85E-07	1.44E-07	0.00E+00	3.84E-07	8.57E-09	2.98E-08	2.28E-08	6.12E-08	3.76E-10	2.28E-09	1.34E-09	3.99E-09
977	577200.7	4194194	5.52E-08	1.86E-07	1.45E-07	0.00E+00	3.86E-07	8.60E-09	2.99E-08	2.29E-08	6.14E-08	3.77E-10	2.29E-09	1.34E-09	4.01E-09
978	577209.5	4194191	5.71E-08	1.92E-07	1.50E-07	0.00E+00	3.99E-07	8.90E-09	3.10E-08	2.37E-08	6.36E-08	3.91E-10	2.37E-09	1.39E-09	4.15E-09
979	577218.6	4194190	6.05E-08	2.04E-07	1.59E-07	0.00E+00	4.23E-07	9.43E-09	3.29E-08	2.51E-08	6.74E-08	4.14E-10	2.51E-09	1.47E-09	4.39E-09
980	577227.6	4194189	6.35E-08	2.14E-07	1.67E-07	0.00E+00	4.44E-07	9.89E-09	3.45E-08	2.63E-08	7.07E-08	4.34E-10	2.63E-09	1.54E-09	4.61E-09

981	577164.1	4194211	3.95E-08	1.33E-07	1.04E-07	0.00E+00	2.76E-07	6.15E-09	2.14E-08	1.64E-08	4.39E-08	2.70E-10	1.64E-09	9.60E-10	2.87E-09
982	577171.2	4194205	4.27E-08	1.44E-07	1.12E-07	0.00E+00	2.98E-07	6.65E-09	2.31E-08	1.77E-08	4.75E-08	2.92E-10	1.77E-09	1.04E-09	3.10E-09
983	577178.3	4194199	4.53E-08	1.53E-07	1.19E-07	0.00E+00	3.17E-07	7.06E-09	2.46E-08	1.88E-08	5.05E-08	3.10E-10	1.88E-09	1.10E-09	3.29E-09
984	577185.4	4194194	4.69E-08	1.58E-07	1.23E-07	0.00E+00	3.28E-07	7.31E-09	2.55E-08	1.95E-08	5.22E-08	3.21E-10	1.94E-09	1.14E-09	3.41E-09
985	577192.5	4194188	4.71E-08	1.59E-07	1.24E-07	0.00E+00	3.29E-07	7.34E-09	2.56E-08	1.95E-08	5.24E-08	3.22E-10	1.95E-09	1.15E-09	3.42E-09
986	577199.6	4194182	4.63E-08	1.56E-07	1.21E-07	0.00E+00	3.23E-07	7.21E-09	2.51E-08	1.92E-08	5.15E-08	3.16E-10	1.92E-09	1.13E-09	3.36E-09
987	577208.6	4194181	4.87E-08	1.64E-07	1.28E-07	0.00E+00	3.41E-07	7.59E-09	2.64E-08	2.02E-08	5.43E-08	3.33E-10	2.02E-09	1.19E-09	3.54E-09
988	577217.7	4194180	5.12E-08	1.72E-07	1.34E-07	0.00E+00	3.58E-07	7.97E-09	2.78E-08	2.12E-08	5.70E-08	3.50E-10	2.12E-09	1.24E-09	3.71E-09
989	577226.8	4194179	5.33E-08	1.80E-07	1.40E-07	0.00E+00	3.73E-07	8.31E-09	2.89E-08	2.21E-08	5.94E-08	3.65E-10	2.21E-09	1.30E-09	3.87E-09
990	577235.9	4194179	5.53E-08	1.86E-07	1.45E-07	0.00E+00	3.87E-07	8.62E-09	3.00E-08	2.29E-08	6.16E-08	3.78E-10	2.29E-09	1.35E-09	4.01E-09
991	577155.8	4194205	3.45E-08	1.16E-07	9.06E-08	0.00E+00	2.41E-07	5.37E-09	1.87E-08	1.43E-08	3.84E-08	2.36E-10	1.43E-09	8.39E-10	2.50E-09
992	577162.9	4194200	3.70E-08	1.24E-07	9.71E-08	0.00E+00	2.59E-07	5.76E-09	2.01E-08	1.53E-08	4.12E-08	2.53E-10	1.53E-09	9.00E-10	2.68E-09
993	577170	4194194	3.91E-08	1.32E-07	1.03E-07	0.00E+00	2.74E-07	6.10E-09	2.12E-08	1.62E-08	4.36E-08	2.68E-10	1.62E-09	9.52E-10	2.84E-09
994	577177.1	4194188	4.03E-08	1.35E-07	1.06E-07	0.00E+00	2.81E-07	6.27E-09	2.18E-08	1.67E-08	4.48E-08	2.75E-10	1.67E-09	9.79E-10	2.92E-09
995	577184.2	4194182	4.06E-08	1.37E-07	1.07E-07	0.00E+00	2.84E-07	6.32E-09	2.20E-08	1.68E-08	4.51E-08	2.77E-10	1.68E-09	9.87E-10	2.94E-09
996	577191.3	4194177	4.00E-08	1.35E-07	1.05E-07	0.00E+00	2.80E-07	6.24E-09	2.17E-08	1.66E-08	4.46E-08	2.74E-10	1.66E-09	9.74E-10	2.91E-09
997	577199.6	4194172	4.01E-08	1.35E-07	1.05E-07	0.00E+00	2.80E-07	6.24E-09	2.17E-08	1.66E-08	4.46E-08	2.74E-10	1.66E-09	9.74E-10	2.91E-09
998	577208.7	4194171	4.20E-08	1.41E-07	1.10E-07	0.00E+00	2.94E-07	6.55E-09	2.28E-08	1.74E-08	4.68E-08	2.87E-10	1.74E-09	1.02E-09	3.05E-09
999	577217.8	4194171	4.38E-08	1.47E-07	1.15E-07	0.00E+00	3.06E-07	6.83E-09	2.38E-08	1.82E-08	4.88E-08	3.00E-10	1.82E-09	1.07E-09	3.18E-09
1000	577226.9	4194170	4.55E-08	1.53E-07	1.19E-07	0.00E+00	3.18E-07	7.09E-09	2.47E-08	1.89E-08	5.06E-08	3.11E-10	1.88E-09	1.11E-09	3.30E-09
1001	577147.5	4194200	3.02E-08	1.02E-07	7.94E-08	0.00E+00	2.11E-07	4.71E-09	1.64E-08	1.25E-08	3.37E-08	2.07E-10	1.25E-09	7.36E-10	2.19E-09
1002	577154.6	4194194	3.23E-08	1.09E-07	8.48E-08	0.00E+00	2.26E-07	5.03E-09	1.75E-08	1.34E-08	3.59E-08	2.21E-10	1.34E-09	7.86E-10	2.34E-09
1003	577161.7	4194188	3.39E-08	1.14E-07	8.89E-08	0.00E+00	2.37E-07	5.28E-09	1.84E-08	1.40E-08	3.77E-08	2.32E-10	1.40E-09	8.24E-10	2.46E-09
1004	577168.8	4194182	3.48E-08	1.17E-07	9.15E-08	0.00E+00	2.44E-07	5.43E-09	1.89E-08	1.44E-08	3.88E-08	2.38E-10	1.44E-09	8.47E-10	2.53E-09
1005	577176	4194177	3.52E-08	1.19E-07	9.25E-08	0.00E+00	2.46E-07	5.49E-09	1.91E-08	1.46E-08	3.92E-08	2.41E-10	1.46E-09	8.57E-10	2.56E-09
1006	577183.1	4194171	3.50E-08	1.18E-07	9.19E-08	0.00E+00	2.45E-07	5.45E-09	1.90E-08	1.45E-08	3.90E-08	2.39E-10	1.45E-09	8.51E-10	2.54E-09
1007	577190.2	4194165	3.41E-08	1.15E-07	8.97E-08	0.00E+00	2.39E-07	5.32E-09	1.85E-08	1.42E-08	3.80E-08	2.34E-10	1.41E-09	8.31E-10	2.48E-09
1008	577139.2	4194194	2.66E-08	8.95E-08	6.99E-08	0.00E+00	1.86E-07	4.15E-09	1.44E-08	1.10E-08	2.96E-08	1.82E-10	1.10E-09	6.47E-10	1.93E-09
1009	577146.3	4194188	2.83E-08	9.53E-08	7.43E-08	0.00E+00	1.98E-07	4.41E-09	1.54E-08	1.17E-08	3.15E-08	1.94E-10	1.17E-09	6.89E-10	2.05E-09
1010	577153.5	4194183	2.96E-08	9.95E-08	7.76E-08	0.00E+00	2.07E-07	4.61E-09	1.60E-08	1.23E-08	3.29E-08	2.02E-10	1.22E-09	7.19E-10	2.15E-09
1011	577160.6	4194177	3.04E-08	1.02E-07	7.98E-08	0.00E+00	2.12E-07	4.73E-09	1.65E-08	1.26E-08	3.38E-08	2.08E-10	1.26E-09	7.39E-10	2.21E-09
1012	577167.7	4194171	3.08E-08	1.04E-07	8.10E-08	0.00E+00	2.16E-07	4.80E-09	1.67E-08	1.28E-08	3.43E-08	2.11E-10	1.28E-09	7.50E-10	2.24E-09
1013	577174.8	4194165	3.08E-08	1.04E-07	8.09E-08	0.00E+00	2.15E-07	4.80E-09	1.67E-08	1.28E-08	3.43E-08	2.11E-10	1.28E-09	7.49E-10	2.24E-09
1014	577130.9	4194189	2.35E-08	7.92E-08	6.18E-08	0.00E+00	1.64E-07	3.66E-09	1.28E-08	9.75E-09	2.62E-08	1.61E-10	9.74E-10	5.72E-10	1.71E-09
1015	577138	4194183	2.49E-08	8.38E-08	6.54E-08	0.00E+00	1.74E-07	3.88E-09	1.35E-08	1.03E-08	2.77E-08	1.70E-10	1.03E-09	6.06E-10	1.81E-09
1016	577145.1	4194177	2.59E-08	8.73E-08	6.81E-08	0.00E+00	1.81E-07	4.04E-09	1.41E-08	1.08E-08	2.89E-08	1.77E-10	1.07E-09	6.31E-10	1.88E-09
1017	577152.2	4194171	2.67E-08	8.99E-08	7.02E-08	0.00E+00	1.87E-07	4.16E-09	1.45E-08	1.11E-08	2.97E-08	1.83E-10	1.11E-09	6.50E-10	1.94E-09
1018	577159.2	4194166	2.72E-08	9.14E-08	7.13E-08	0.00E+00	1.90E-07	4.23E-09	1.47E-08	1.13E-08	3.02E-08	1.86E-10	1.12E-09	6.61E-10	1.97E-09
1019	577166.3	4194160	2.73E-08	9.18E-08	7.16E-08	0.00E+00	1.91E-07	4.25E-09	1.48E-08	1.13E-08	3.03E-08	1.86E-10	1.13E-09	6.63E-10	1.98E-09
1020	577216.5	4194142	2.92E-08	9.84E-08	7.67E-08	0.00E+00	2.04E-07	4.55E-09	1.59E-08	1.21E-08	3.25E-08	2.00E-10	1.21E-09	7.11E-10	2.12E-09
1021	577225.5	4194141	3.00E-08	1.01E-07	7.88E-08	0.00E+00	2.10E-07	4.68E-09	1.63E-08	1.24E-08	3.34E-08	2.05E-10	1.24E-09	7.30E-10	2.18E-09
1022	577234.6	4194140	3.07E-08	1.03E-07	8.06E-08	0.00E+00	2.15E-07	4.79E-09	1.67E-08	1.27E-08	3.42E-08	2.10E-10	1.27E-09	7.47E-10	2.23E-09
1023	577243.7	4194140	3.13E-08	1.06E-07	8.23E-08	0.00E+00	2.19E-07	4.88E-09	1.70E-08	1.30E-08	3.49E-08	2.14E-10	1.30E-09	7.63E-10	2.28E-09
1024	577122.6	4194183	2.09E-08	7.03E-08	5.48E-08	0.00E+00	1.46E-07	3.25E-09	1.13E-08	8.65E-09	2.32E-08	1.43E-10	8.65E-10	5.08E-10	1.52E-09
1025	577129.7	4194177	2.20E-08	7.40E-08	5.78E-08	0.00E+00	1.54E-07	3.43E-09	1.19E-08	9.12E-09	2.45E-08	1.50E-10	9.11E-10	5.35E-10	1.60E-09
1026	577136.8	4194171	2.29E-08	7.72E-08	6.03E-08	0.00E+00	1.60E-07	3.58E-09	1.25E-08	9.51E-09	2.55E-08	1.57E-10	9.51E-10	5.58E-10	1.67E-09
1027	577143.9	4194166	2.36E-08	7.96E-08	6.21E-08	0.00E+00	1.65E-07	3.68E-09	1.28E-08	9.80E-09	2.63E-08	1.62E-10	9.79E-10	5.75E-10	1.72E-09
1028	577151	4194160	2.41E-08	8.10E-08	6.32E-08	0.00E+00	1.68E-07	3.75E-09	1.31E-08	9.98E-09	2.68E-08	1.65E-10	9.97E-10	5.86E-10	1.75E-09
1029	577179.3	4194137	2.33E-08	7.83E-08	6.11E-08	0.00E+00	1.63E-07	3.62E-09	1.26E-08	9.64E-09	2.59E-08	1.59E-10	9.63E-10	5.66E-10	1.69E-09
1030	577188.4	4194135	2.37E-08	7.98E-08	6.23E-08	0.00E+00	1.66E-07	3.70E-09	1.29E-08	9.83E-09	2.64E-08	1.62E-10	9.82E-10	5.77E-10	1.72E-09
1031	577197.4	4194134	2.45E-08	8.23E-08	6.42E-08	0.00E+00	1.71E-07	3.81E-09	1.33E-08	1.01E-08	2.72E-08	1.67E-10	1.01E-09	5.95E-10	1.78E-09
1032	577206.5	4194133	2.52E-08	8.47E-08	6.61E-08	0.00E+00	1.76E-07	3.92E-09	1.37E-08	1.04E-08	2.80E-08	1.72E-10	1.04E-09	6.13E-10	1.83E-09
1033	577215.6	4194132	2.58E-08	8.70E-08	6.79E-08	0.00E+00	1.81E-07	4.03E-09	1.40E-08	1.07E-08	2.88E-08	1.77E-10	1.07E-09	6.29E-10	1.88E-09
1034	577224.7	4194132	2.65E-08	8.91E-08	6.95E-08	0.00E+00	1.85E-07	4.12E-09	1.44E-08	1.10E-08	2.95E-08	1.81E-10	1.10E-09	6.44E-10	1.92E-09
1035	577233.8	4194131	2.70E-08	9.09E-08	7.10E-08	0.00E+00	1.89E-07	4.21E-09	1.47E-08	1.12E-08	3.01E-08	1.85E-10	1.12E-09	6.57E-10	1.96E-09
1036	577242.9	4194130	2.75E-08	9.27E-08	7.23E-08	0.00E+00	1.92E-07	4.29E-09	1.49E-08	1.14E-08	3.06E-08	1.88E-10	1.14E-09	6.70E-10	2.00E-09
1037	577114.3	4194177	1.86E-08	6.26E-08	4.88E-08	0.00E+00	1.30E-07	2.90E-09	1.01E-08	7.71E-09	2.07E-08	1.27E-10	7.70E-10	4.52E-10	1.35E-09
1038	577121.4	4194172	1.96E-08	6.59E-08	5.14E-08	0.00E+00	1.37E-07	3.05E-09	1.06E-08	8.12E-09	2.18E-08	1.34E-10	8.11E-10	4.76E-10	1.42E-09
1039	577128.5	4194166	2.04E-08	6.87E-08	5.36E-08	0.00E+00	1.43E-07	3.18E-09	1.11E-08	8.46E-09	2.27E-08	1.40E-10	8.46E-10	4.97E-10	1.48E-09
1040	577135.6	4194160	2.10E-08	7.08E-08	5.53E-08	0.00E+00	1.47E-07	3.28E-09	1.14E-08	8.73E-09	2.34E-08	1.44E-10	8.72E-10	5.12E-10	1.53E-09
1041	577142.7	4194154	2.15E-08	7.22E-08	5.63E-08	0.00E+00	1.50E-07	3.34E-09	1.16E-08	8.90E-09	2.39E-08	1.47E-10	8.89E-10	5.22E-10	1.56E-09
1042	577171.1	4194131	2.10E-08	7.07E-08	5.52E-08	0.00E+00	1.47E-07	3.27E-09	1.14E-08	8.71E-09	2.34E-08	1.44E-10	8.71E-10	5.11E-10	1.53E-09
1043	577178.9	4194126	2.07E-08	6.96E-08	5.43E-08	0.00E+00	1.45E-07	3.22E-09	1.12E-08	8.57E-09	2.30E-08	1.41E-10	8.56E-10	5.03E-10	1.50E-09
1044	577188	4194125	2.13E-08	7.17E-08	5.60E-08	0.00E+00	1.49E-07	3.32E-09	1.16E-08	8.84E-09	2.37E-08	1.46E-10	8.83E-10	5.19E-10	1.55E-09
1045	577197	4194124	2.19E-08	7.38E-08	5.75E-08	0.00E+00	1.53E-07	3.41E-09	1.19E-08	9.09E-09	2.44E-08	1.50E-10	9.08E-10	5.33E-10	1.59E-09
1046	577206.1	4194124	2.25E-08	7.56E-08	5.90E-08	0.00E+00	1.57E-07	3.50E-09	1.22E-08	9.32E-09	2.50E-08	1.54E-10	9.31E-10	5.47E-10	1.63E-09
1047	577215.2	4194123	2.30E-08	7.74E-08	6.04E-08	0.00E+00	1.61E-07	3.58E-09	1.25E-08	9.54E-09	2.56E-08	1.57E-10	9.53E-10	5.60E-10	1.67E-09
1048	577224.3	4194122	2.35E-08	7.91E-08	6.17E-08	0.00E+00	1.64E-07	3.66E-09	1.28E-08	9.74E-09	2.62E-08	1.61E-10	9.73E-10	5.72E-10	1.71E-09
1049	577233.4	4194121	2.39E-08	8.06E-08	6.29E-08	0.00E+00	1.67E-07	3.73E-09	1.30E-08	9.93E-09	2.67E-08	1.64E-10	9.92E-10	5.83E-10	1.74E-09
1050	577242.5	4194120	2.44E-08	8.20E-08	6.40E-08	0.00E+00	1.70E-07	3.80E-09	1.32E-08	1.01E-08	2.71E-08	1.67E-10	1.01E-09	5.93E-10	1.77E-09
1051	577106.1	4194172	1.67E-08	5.60E-08	4.37E-08	0.00E+00	1.16E-07	2.59E-09	9.04E-09	6.90E-09	1.85E-08	1.14E-10	6.90E-10	4.05E-10	1.21E-09
1052	577113.1	4194166	1.75E-08	5.89E-08	4.60E-08	0.00E+00	1.22E-07	2.73E-09	9.50E-09	7.26E-09	1.95E-08	1.20E-10	7.25E-10	4.26E-10	1.27E-09
1053	577120.2	4194160	1.82E-08	6.14E-08	4.79E-08	0.00E+00	1.28E-07	2.84E-09	9.90E-09	7.56E-09	2.03E-08	1.25E-10	7.56E-10	4.44E-10	1.32E-09
1054	577127.3	4194155	1.88E-08	6.34E-08	4.94E-08	0.00E+00	1.32E-07	2.93E-09	1.02E-08	7.80E-09	2.10E-08	1.29E-10	7.80E-10	4.58E-10	1.37E-09
1055	577155.7	4194131	1.93E-08	6.51E-08	5.08E-08	0.00E+00	1.35E-07	3.01E-09	1.05E-08	8.02E-09	2.15E-08	1.32E-10	8.01E-10	4.70E-10	1.40E-09
1056	577162.8	4194126	1.91E-08	6.41E-08	5.00E-08	0.00E+00	1.33E-07	2.97E-09	1.03E-08	7.90E-09	2.12E-08	1.30E-10	7.89E-10	4.64E-10	1.38E-09
1057	577169.9	4194120	1.87E-08	6.28E-08	4.90E-08	0.00E+00	1.30E-07	2.91E-09	1.01E-08	7.74E-09	2.08E-08	1.28E-10	7.73E-10	4.54E-10	1.35E-09
1058	577178.5	4194117	1.87E-08	6.29E-08	4.91E-08	0.00E+00	1.31E-07	2.91E-09	1.01E-08	7.75E-09	2.08E-08	1.28E-10	7.75E-10	4.55E-10	1.36E-09
1059	577187.6	4194116	1.92E-08	6.47E-08	5.05E-08	0.00E+00	1.34E-07	3.00E-09	1.04E-08	7.97E-09	2.14E-08	1.31E-10	7.97E-10	4.68E-10	1.40E-09
1060	577196.7	4194115	1.97E-08	6.63E-08	5.18E-08	0.00E+00	1.38E-07	3.07E-09	1.07E-08	8.17E-09	2.19E-08	1.35E-10	8.17E-10	4.80E-10	1.43E-09
1061	577205.8	4194114	2.02E-08	6.78E-08	5.29E-08	0.00E+00	1.41E-07	3.14E-09	1.09E-08	8.36E-09	2.24E-08	1.38E-10	8.35E-10	4.90E-10	1.46E-09
1062	577214.9	4194113	2.06E-08	6.93E-08	5.40E-08	0.00E+00	1.44E-07	3.21E-09	1.12E-08	8.53E-09	2.29E-08	1.41E-10	8.52E-10	5.01E-10	1.49E-09

1063	577224	4194112	2.10E-08	7.06E-08	5.51E-08	0.00E+00	1.47E-07	3.27E-09	1.14E-08	8.70E-09	2.33E-08	1.43E-10	8.69E-10	5.10E-10	1.52E-09
1064	577233.1	4194112	2.13E-08	7.18E-08	5.61E-08	0.00E+00	1.49E-07	3.33E-09	1.16E-08	8.85E-09	2.38E-08	1.46E-10	8.84E-10	5.19E-10	1.55E-09
1065	577242.2	4194111	2.17E-08	7.30E-08	5.70E-08	0.00E+00	1.52E-07	3.38E-09	1.18E-08	9.00E-09	2.42E-08	1.48E-10	8.99E-10	5.28E-10	1.57E-09
1066	577251.3	4194110	2.20E-08	7.41E-08	5.78E-08	0.00E+00	1.54E-07	3.43E-09	1.19E-08	9.13E-09	2.45E-08	1.51E-10	9.12E-10	5.35E-10	1.60E-09
1067	577097.8	4194166	1.50E-08	5.05E-08	3.94E-08	0.00E+00	1.05E-07	2.34E-09	8.13E-09	6.22E-09	1.67E-08	1.03E-10	6.21E-10	3.65E-10	1.09E-09
1068	577104.9	4194160	1.57E-08	5.30E-08	4.13E-08	0.00E+00	1.10E-07	2.45E-09	8.54E-09	6.52E-09	1.75E-08	1.08E-10	6.52E-10	3.83E-10	1.14E-09
1069	577112	4194155	1.64E-08	5.52E-08	4.30E-08	0.00E+00	1.15E-07	2.55E-09	8.89E-09	6.80E-09	1.82E-08	1.12E-10	6.79E-10	3.99E-10	1.19E-09
1070	577119.1	4194149	1.69E-08	5.69E-08	4.44E-08	0.00E+00	1.18E-07	2.64E-09	9.18E-09	7.01E-09	1.88E-08	1.16E-10	7.01E-10	4.12E-10	1.23E-09
1071	577147.5	4194126	1.75E-08	5.90E-08	4.60E-08	0.00E+00	1.23E-07	2.73E-09	9.51E-09	7.27E-09	1.95E-08	1.20E-10	7.26E-10	4.26E-10	1.27E-09
1072	577154.6	4194120	1.73E-08	5.83E-08	4.55E-08	0.00E+00	1.21E-07	2.70E-09	9.40E-09	7.18E-09	1.93E-08	1.19E-10	7.18E-10	4.22E-10	1.26E-09
1073	577161.7	4194114	1.70E-08	5.73E-08	4.47E-08	0.00E+00	1.19E-07	2.65E-09	9.24E-09	7.06E-09	1.89E-08	1.16E-10	7.05E-10	4.14E-10	1.24E-09
1074	577168.8	4194109	1.66E-08	5.60E-08	4.37E-08	0.00E+00	1.16E-07	2.59E-09	9.02E-09	6.89E-09	1.85E-08	1.14E-10	6.89E-10	4.05E-10	1.21E-09
1075	577178.1	4194107	1.70E-08	5.71E-08	4.46E-08	0.00E+00	1.19E-07	2.64E-09	9.21E-09	7.04E-09	1.89E-08	1.16E-10	7.03E-10	4.13E-10	1.23E-09
1076	577187.2	4194106	1.74E-08	5.86E-08	4.57E-08	0.00E+00	1.22E-07	2.71E-09	9.45E-09	7.22E-09	1.94E-08	1.19E-10	7.21E-10	4.23E-10	1.26E-09
1077	577196.3	4194105	1.78E-08	5.99E-08	4.67E-08	0.00E+00	1.24E-07	2.77E-09	9.66E-09	7.38E-09	1.98E-08	1.22E-10	7.37E-10	4.33E-10	1.29E-09
1078	577205.4	4194105	1.82E-08	6.11E-08	4.77E-08	0.00E+00	1.27E-07	2.83E-09	9.86E-09	7.53E-09	2.02E-08	1.24E-10	7.52E-10	4.42E-10	1.32E-09
1079	577214.5	4194104	1.85E-08	6.23E-08	4.86E-08	0.00E+00	1.29E-07	2.88E-09	1.00E-08	7.67E-09	2.06E-08	1.27E-10	7.67E-10	4.50E-10	1.34E-09
1080	577223.6	4194103	1.88E-08	6.34E-08	4.95E-08	0.00E+00	1.32E-07	2.94E-09	1.02E-08	7.81E-09	2.10E-08	1.29E-10	7.80E-10	4.58E-10	1.37E-09
1081	577232.7	4194102	1.92E-08	6.45E-08	5.03E-08	0.00E+00	1.34E-07	2.98E-09	1.04E-08	7.94E-09	2.13E-08	1.31E-10	7.93E-10	4.66E-10	1.39E-09
1082	577241.8	4194101	1.95E-08	6.55E-08	5.11E-08	0.00E+00	1.36E-07	3.03E-09	1.06E-08	8.07E-09	2.17E-08	1.33E-10	8.06E-10	4.73E-10	1.41E-09
1083	577250.9	4194100	1.97E-08	6.64E-08	5.18E-08	0.00E+00	1.38E-07	3.07E-09	1.07E-08	8.18E-09	2.20E-08	1.35E-10	8.17E-10	4.80E-10	1.43E-09
1084	577089.5	4194161	1.36E-08	4.56E-08	3.56E-08	0.00E+00	9.48E-08	2.11E-09	7.36E-09	5.62E-09	1.51E-08	9.27E-11	5.62E-10	3.30E-10	9.84E-10
1085	577096.6	4194155	1.42E-08	4.79E-08	3.73E-08	0.00E+00	9.94E-08	2.22E-09	7.72E-09	5.90E-09	1.58E-08	9.72E-11	5.89E-10	3.46E-10	1.03E-09
1086	577103.7	4194149	1.48E-08	4.98E-08	3.89E-08	0.00E+00	1.03E-07	2.31E-09	8.03E-09	6.13E-09	1.65E-08	1.01E-10	6.13E-10	3.60E-10	1.07E-09
1087	577132.1	4194126	1.60E-08	5.37E-08	4.19E-08	0.00E+00	1.12E-07	2.49E-09	8.67E-09	6.62E-09	1.78E-08	1.09E-10	6.61E-10	3.88E-10	1.16E-09
1088	577139.2	4194120	1.59E-08	5.37E-08	4.19E-08	0.00E+00	1.11E-07	2.48E-09	8.65E-09	6.61E-09	1.77E-08	1.09E-10	6.60E-10	3.88E-10	1.16E-09
1089	577146.3	4194114	1.58E-08	5.32E-08	4.15E-08	0.00E+00	1.10E-07	2.46E-09	8.58E-09	6.55E-09	1.76E-08	1.08E-10	6.55E-10	3.84E-10	1.15E-09
1090	577153.4	4194109	1.56E-08	5.24E-08	4.09E-08	0.00E+00	1.09E-07	2.43E-09	8.45E-09	6.45E-09	1.73E-08	1.06E-10	6.45E-10	3.79E-10	1.13E-09
1091	577160.5	4194103	1.53E-08	5.14E-08	4.01E-08	0.00E+00	1.07E-07	2.38E-09	8.28E-09	6.33E-09	1.70E-08	1.04E-10	6.32E-10	3.71E-10	1.11E-09
1092	577168.6	4194098	1.51E-08	5.07E-08	3.96E-08	0.00E+00	1.05E-07	2.35E-09	8.18E-09	6.25E-09	1.68E-08	1.03E-10	6.25E-10	3.67E-10	1.09E-09
1093	577177.7	4194097	1.55E-08	5.20E-08	4.06E-08	0.00E+00	1.08E-07	2.41E-09	8.39E-09	6.41E-09	1.72E-08	1.06E-10	6.40E-10	3.76E-10	1.12E-09
1094	577186.8	4194097	1.58E-08	5.32E-08	4.15E-08	0.00E+00	1.10E-07	2.46E-09	8.57E-09	6.55E-09	1.76E-08	1.08E-10	6.55E-10	3.84E-10	1.15E-09
1095	577195.9	4194096	1.61E-08	5.43E-08	4.23E-08	0.00E+00	1.13E-07	2.51E-09	8.75E-09	6.69E-09	1.79E-08	1.10E-10	6.68E-10	3.92E-10	1.17E-09
1096	577205	4194095	1.64E-08	5.53E-08	4.31E-08	0.00E+00	1.15E-07	2.56E-09	8.92E-09	6.81E-09	1.83E-08	1.12E-10	6.81E-10	4.00E-10	1.19E-09
1097	577214.1	4194094	1.67E-08	5.63E-08	4.39E-08	0.00E+00	1.17E-07	2.61E-09	9.08E-09	6.94E-09	1.86E-08	1.14E-10	6.93E-10	4.07E-10	1.21E-09
1098	577223.2	4194093	1.70E-08	5.73E-08	4.47E-08	0.00E+00	1.19E-07	2.65E-09	9.23E-09	7.05E-09	1.89E-08	1.16E-10	7.05E-10	4.14E-10	1.24E-09
1099	577232.3	4194093	1.73E-08	5.82E-08	4.54E-08	0.00E+00	1.21E-07	2.69E-09	9.38E-09	7.17E-09	1.92E-08	1.18E-10	7.16E-10	4.21E-10	1.25E-09
1100	577241.5	4194092	1.75E-08	5.91E-08	4.61E-08	0.00E+00	1.23E-07	2.73E-09	9.52E-09	7.28E-09	1.95E-08	1.20E-10	7.27E-10	4.27E-10	1.27E-09
1101	577250.6	4194091	1.78E-08	5.98E-08	4.67E-08	0.00E+00	1.24E-07	2.77E-09	9.65E-09	7.37E-09	1.98E-08	1.22E-10	7.36E-10	4.33E-10	1.29E-09
1102	577081.2	4194155	1.23E-08	4.15E-08	3.23E-08	0.00E+00	8.61E-08	1.92E-09	6.68E-09	5.11E-09	1.37E-08	8.42E-11	5.10E-10	3.00E-10	8.94E-10
1103	577088.3	4194149	1.29E-08	4.34E-08	3.39E-08	0.00E+00	9.02E-08	2.01E-09	7.00E-09	5.35E-09	1.44E-08	8.82E-11	5.34E-10	3.14E-10	9.36E-10
1104	577095.4	4194143	1.34E-08	4.51E-08	3.52E-08	0.00E+00	9.38E-08	2.09E-09	7.28E-09	5.56E-09	1.49E-08	9.17E-11	5.56E-10	3.26E-10	9.74E-10
1105	577123.9	4194120	1.45E-08	4.89E-08	3.82E-08	0.00E+00	1.02E-07	2.27E-09	7.89E-09	6.03E-09	1.62E-08	9.94E-11	6.02E-10	3.54E-10	1.06E-09
1106	577131	4194115	1.45E-08	4.90E-08	3.82E-08	0.00E+00	1.02E-07	2.27E-09	7.89E-09	6.03E-09	1.62E-08	9.95E-11	6.03E-10	3.54E-10	1.06E-09
1107	577138.1	4194109	1.45E-08	4.86E-08	3.79E-08	0.00E+00	1.01E-07	2.25E-09	7.84E-09	5.99E-09	1.61E-08	9.88E-11	5.99E-10	3.52E-10	1.05E-09
1108	577145.2	4194103	1.43E-08	4.81E-08	3.75E-08	0.00E+00	9.98E-08	2.22E-09	7.75E-09	5.92E-09	1.59E-08	9.77E-11	5.92E-10	3.47E-10	1.04E-09
1109	577152.3	4194097	1.40E-08	4.73E-08	3.69E-08	0.00E+00	9.82E-08	2.19E-09	7.62E-09	5.82E-09	1.56E-08	9.60E-11	5.82E-10	3.42E-10	1.02E-09
1110	577159.4	4194092	1.37E-08	4.62E-08	3.61E-08	0.00E+00	9.61E-08	2.14E-09	7.46E-09	5.70E-09	1.53E-08	9.40E-11	5.69E-10	3.34E-10	9.97E-10
1111	577168.2	4194089	1.38E-08	4.65E-08	3.63E-08	0.00E+00	9.65E-08	2.15E-09	7.49E-09	5.72E-09	1.54E-08	9.44E-11	5.72E-10	3.36E-10	1.00E-09
1112	577177.3	4194088	1.41E-08	4.75E-08	3.71E-08	0.00E+00	9.87E-08	2.20E-09	7.66E-09	5.85E-09	1.57E-08	9.65E-11	5.85E-10	3.43E-10	1.02E-09
1113	577186.4	4194087	1.44E-08	4.85E-08	3.78E-08	0.00E+00	1.01E-07	2.24E-09	7.81E-09	5.97E-09	1.60E-08	9.85E-11	5.96E-10	3.50E-10	1.05E-09
1114	577195.5	4194086	1.47E-08	4.93E-08	3.85E-08	0.00E+00	1.03E-07	2.28E-09	7.96E-09	6.08E-09	1.63E-08	1.00E-10	6.07E-10	3.57E-10	1.06E-09
1115	577204.6	4194085	1.49E-08	5.02E-08	3.92E-08	0.00E+00	1.04E-07	2.33E-09	8.10E-09	6.19E-09	1.66E-08	1.02E-10	6.18E-10	3.63E-10	1.08E-09
1116	577213.7	4194085	1.52E-08	5.11E-08	3.99E-08	0.00E+00	1.06E-07	2.37E-09	8.24E-09	6.29E-09	1.69E-08	1.04E-10	6.29E-10	3.69E-10	1.10E-09
1117	577222.9	4194084	1.54E-08	5.19E-08	4.05E-08	0.00E+00	1.08E-07	2.40E-09	8.37E-09	6.40E-09	1.72E-08	1.06E-10	6.39E-10	3.75E-10	1.12E-09
1118	577232	4194083	1.57E-08	5.27E-08	4.11E-08	0.00E+00	1.10E-07	2.44E-09	8.50E-09	6.50E-09	1.74E-08	1.07E-10	6.49E-10	3.81E-10	1.14E-09
1119	577241.1	4194082	1.59E-08	5.35E-08	4.17E-08	0.00E+00	1.11E-07	2.48E-09	8.62E-09	6.59E-09	1.77E-08	1.09E-10	6.58E-10	3.87E-10	1.15E-09
1120	577250.2	4194081	1.61E-08	5.42E-08	4.23E-08	0.00E+00	1.13E-07	2.51E-09	8.74E-09	6.67E-09	1.79E-08	1.10E-10	6.67E-10	3.92E-10	1.17E-09
1121	577072.9	4194149	1.12E-08	3.78E-08	2.95E-08	0.00E+00	7.85E-08	1.75E-09	6.10E-09	4.66E-09	1.25E-08	7.68E-11	4.65E-10	2.73E-10	8.15E-10
1122	577080	4194144	1.17E-08	3.95E-08	3.08E-08	0.00E+00	8.21E-08	1.83E-09	6.37E-09	4.87E-09	1.31E-08	8.03E-11	4.87E-10	2.86E-10	8.53E-10
1123	577108.5	4194121	1.31E-08	4.42E-08	3.45E-08	0.00E+00	9.19E-08	2.05E-09	7.13E-09	5.45E-09	1.46E-08	8.99E-11	5.44E-10	3.20E-10	9.54E-10
1124	577115.6	4194115	1.33E-08	4.47E-08	3.49E-08	0.00E+00	9.28E-08	2.07E-09	7.20E-09	5.50E-09	1.48E-08	9.08E-11	5.50E-10	3.23E-10	9.64E-10
1125	577122.7	4194109	1.33E-08	4.48E-08	3.50E-08	0.00E+00	9.31E-08	2.07E-09	7.23E-09	5.52E-09	1.48E-08	9.11E-11	5.52E-10	3.24E-10	9.66E-10
1126	577129.8	4194103	1.33E-08	4.46E-08	3.48E-08	0.00E+00	9.27E-08	2.07E-09	7.20E-09	5.50E-09	1.48E-08	9.07E-11	5.49E-10	3.23E-10	9.63E-10
1127	577136.9	4194097	1.31E-08	4.42E-08	3.45E-08	0.00E+00	9.18E-08	2.05E-09	7.13E-09	5.45E-09	1.46E-08	8.98E-11	5.44E-10	3.19E-10	9.53E-10
1128	577144	4194092	1.29E-08	4.36E-08	3.40E-08	0.00E+00	9.05E-08	2.02E-09	7.03E-09	5.37E-09	1.44E-08	8.85E-11	5.36E-10	3.15E-10	9.40E-10
1129	577151.2	4194086	1.27E-08	4.28E-08	3.34E-08	0.00E+00	8.88E-08	1.98E-09	6.89E-09	5.27E-09	1.41E-08	8.69E-11	5.26E-10	3.09E-10	9.22E-10
1130	577158.3	4194080	1.24E-08	4.18E-08	3.26E-08	0.00E+00	8.68E-08	1.93E-09	6.74E-09	5.15E-09	1.38E-08	8.49E-11	5.14E-10	3.02E-10	9.01E-10
1131	577167.3	4194079	1.27E-08	4.26E-08	3.32E-08	0.00E+00	8.85E-08	1.97E-09	6.87E-09	5.25E-09	1.41E-08	8.66E-11	5.24E-10	3.08E-10	9.19E-10
1132	577176.4	4194078	1.29E-08	4.35E-08	3.39E-08	0.00E+00	9.03E-08	2.01E-09	7.01E-09	5.35E-09	1.44E-08	8.83E-11	5.35E-10	3.14E-10	9.37E-10
1133	577185.5	4194077	1.31E-08	4.42E-08	3.45E-08	0.00E+00	9.19E-08	2.05E-09	7.13E-09	5.45E-09	1.46E-08	8.99E-11	5.45E-10	3.20E-10	9.54E-10
1134	577194.7	4194077	1.34E-08	4.50E-08	3.51E-08	0.00E+00	9.35E-08	2.08E-09	7.25E-09	5.54E-09	1.49E-08	9.14E-11	5.54E-10	3.25E-10	9.70E-10
1135	577203.8	4194076	1.36E-08	4.57E-08	3.57E-08	0.00E+00	9.50E-08	2.12E-09	7.38E-09	5.64E-09	1.51E-08	9.29E-11	5.63E-10	3.31E-10	9.87E-10
1136	577212.9	4194075	1.38E-08	4.65E-08	3.63E-08	0.00E+00	9.66E-08	2.15E-09	7.50E-09	5.73E-09	1.54E-08	9.45E-11	5.72E-10	3.36E-10	1.00E-09
1137	577222	4194074	1.40E-08	4.72E-08	3.69E-08	0.00E+00	9.81E-08	2.19E-09	7.62E-09	5.82E-09	1.56E-08	9.60E-11	5.81E-10	3.41E-10	1.02E-09
1138	577231.1	4194073	1.42E-08	4.79E-08	3.74E-08	0.00E+00	9.96E-08	2.22E-09	7.73E-09	5.91E-09	1.59E-08	9.74E-11	5.90E-10	3.47E-10	1.03E-09
1139	577240.3	4194073	1.44E-08	4.86E-08	3.79E-08	0.00E+00	1.01E-07	2.25E-09	7.84E-09	5.99E-09	1.61E-08	9.88E-11	5.98E-10	3.51E-10	1.05E-09
1140	577249.4	4194072	1.46E-08	4.92E-08	3.84E-08	0.00E+00	1.02E-07	2.28E-09	7.93E-09	6.06E-09	1.63E-08	1.00E-10	6.06E-10	3.56E-10	1.06E-09
1141	577258.5	4194071	1.48E-08	4.98E-08	3.88E-08	0.00E+00	1.03E-07	2.30E-09	8.03E-09	6.13E-09	1.65E-08	1.01E-10	6.13E-10	3.60E-10	1.07E-09
1142	577064.6	4194144	1.03E-08	3.46E-08	2.70E-08	0.00E+00	7.19E-08	1.60E-09	5.58E-09	4.26E-09	1.14E-08	7.03E-11	4.26E-10	2.50E-10	7.46E-10
1143	577093.1	4194121	1.18E-08	3.97E-08	3.10E-08	0.00E+00	8.25E-08	1.84E-09	6.40E-09	4.89E-09	1.31E-08	8.07E-11	4.89E-10	2.87E-10	8.57E-10
1144	577100.2	4194115	1.20E-08	4.05E-08	3.16E-08	0.00E+00	8.40E-08	1.87E-09	6.52E-09	4.98E-09	1.34E-08	8.22E-11	4.98E-10	2.92E-10	8.72E-10

1145	577107.3	4194109	1.22E-08	4.09E-08	3.19E-08	0.00E+00	8.50E-08	1.89E-09	6.60E-09	5.04E-09	1.35E-08	8.32E-11	5.04E-10	2.96E-10	8.83E-10
1146	577114.4	4194103	1.22E-08	4.11E-08	3.21E-08	0.00E+00	8.54E-08	1.90E-09	6.63E-09	5.07E-09	1.36E-08	8.36E-11	5.06E-10	2.97E-10	8.87E-10
1147	577121.6	4194098	1.22E-08	4.11E-08	3.20E-08	0.00E+00	8.53E-08	1.90E-09	6.62E-09	5.06E-09	1.36E-08	8.34E-11	5.05E-10	2.97E-10	8.86E-10
1148	577128.7	4194092	1.21E-08	4.08E-08	3.18E-08	0.00E+00	8.47E-08	1.89E-09	6.57E-09	5.02E-09	1.35E-08	8.28E-11	5.02E-10	2.95E-10	8.79E-10
1149	577135.8	4194086	1.20E-08	4.03E-08	3.14E-08	0.00E+00	8.36E-08	1.86E-09	6.49E-09	4.96E-09	1.33E-08	8.18E-11	4.96E-10	2.91E-10	8.68E-10
1150	577142.9	4194080	1.18E-08	3.96E-08	3.09E-08	0.00E+00	8.23E-08	1.83E-09	6.39E-09	4.88E-09	1.31E-08	8.05E-11	4.87E-10	2.86E-10	8.54E-10
1151	577150	4194075	1.15E-08	3.88E-08	3.03E-08	0.00E+00	8.06E-08	1.80E-09	6.25E-09	4.78E-09	1.28E-08	7.88E-11	4.77E-10	2.80E-10	8.37E-10
1152	577158.3	4194070	1.14E-08	3.85E-08	3.00E-08	0.00E+00	7.99E-08	1.78E-09	6.20E-09	4.74E-09	1.27E-08	7.82E-11	4.73E-10	2.78E-10	8.30E-10
1153	577167.4	4194070	1.17E-08	3.92E-08	3.06E-08	0.00E+00	8.15E-08	1.82E-09	6.33E-09	4.83E-09	1.30E-08	7.97E-11	4.83E-10	2.84E-10	8.46E-10
1154	577176.5	4194069	1.19E-08	3.99E-08	3.12E-08	0.00E+00	8.30E-08	1.85E-09	6.44E-09	4.92E-09	1.32E-08	8.12E-11	4.92E-10	2.89E-10	8.62E-10
1155	577185.6	4194068	1.21E-08	4.06E-08	3.17E-08	0.00E+00	8.44E-08	1.88E-09	6.55E-09	5.00E-09	1.34E-08	8.25E-11	5.00E-10	2.94E-10	8.76E-10
1156	577194.8	4194067	1.23E-08	4.13E-08	3.22E-08	0.00E+00	8.57E-08	1.91E-09	6.65E-09	5.08E-09	1.36E-08	8.38E-11	5.08E-10	2.98E-10	8.90E-10
1157	577203.9	4194066	1.24E-08	4.19E-08	3.27E-08	0.00E+00	8.70E-08	1.94E-09	6.75E-09	5.16E-09	1.39E-08	8.51E-11	5.16E-10	3.03E-10	9.04E-10
1158	577213	4194065	1.26E-08	4.25E-08	3.32E-08	0.00E+00	8.84E-08	1.97E-09	6.86E-09	5.24E-09	1.41E-08	8.64E-11	5.23E-10	3.07E-10	9.17E-10
1159	577222.1	4194065	1.28E-08	4.32E-08	3.37E-08	0.00E+00	8.97E-08	2.00E-09	6.96E-09	5.32E-09	1.43E-08	8.77E-11	5.31E-10	3.12E-10	9.31E-10
1160	577231.3	4194064	1.30E-08	4.38E-08	3.42E-08	0.00E+00	9.09E-08	2.03E-09	7.06E-09	5.39E-09	1.45E-08	8.90E-11	5.39E-10	3.16E-10	9.44E-10
1161	577240.4	4194063	1.32E-08	4.44E-08	3.46E-08	0.00E+00	9.22E-08	2.05E-09	7.15E-09	5.47E-09	1.47E-08	9.02E-11	5.46E-10	3.21E-10	9.57E-10
1162	577249.5	4194062	1.33E-08	4.49E-08	3.50E-08	0.00E+00	9.33E-08	2.08E-09	7.24E-09	5.53E-09	1.49E-08	9.13E-11	5.53E-10	3.25E-10	9.69E-10
1163	577258.6	4194061	1.35E-08	4.54E-08	3.54E-08	0.00E+00	9.43E-08	2.10E-09	7.32E-09	5.60E-09	1.50E-08	9.23E-11	5.59E-10	3.28E-10	9.80E-10
1164	577056.3	4194138	9.44E-09	3.18E-08	2.48E-08	0.00E+00	6.60E-08	1.47E-09	5.12E-09	3.91E-09	1.05E-08	6.46E-11	3.91E-10	2.30E-10	6.85E-10
1165	577084.8	4194115	1.08E-08	3.64E-08	2.84E-08	0.00E+00	7.56E-08	1.69E-09	5.87E-09	4.49E-09	1.20E-08	7.40E-11	4.48E-10	2.63E-10	7.85E-10
1166	577091.9	4194109	1.10E-08	3.71E-08	2.90E-08	0.00E+00	7.71E-08	1.72E-09	5.98E-09	4.57E-09	1.23E-08	7.54E-11	4.57E-10	2.68E-10	8.00E-10
1167	577099	4194104	1.12E-08	3.76E-08	2.93E-08	0.00E+00	7.81E-08	1.74E-09	6.06E-09	4.63E-09	1.24E-08	7.64E-11	4.63E-10	2.72E-10	8.11E-10
1168	577106.2	4194098	1.12E-08	3.78E-08	2.95E-08	0.00E+00	7.86E-08	1.75E-09	6.10E-09	4.66E-09	1.25E-08	7.69E-11	4.66E-10	2.73E-10	8.16E-10
1169	577113.3	4194092	1.12E-08	3.79E-08	2.95E-08	0.00E+00	7.86E-08	1.75E-09	6.10E-09	4.66E-09	1.25E-08	7.69E-11	4.66E-10	2.74E-10	8.16E-10
1170	577120.4	4194086	1.12E-08	3.77E-08	2.94E-08	0.00E+00	7.82E-08	1.74E-09	6.07E-09	4.64E-09	1.25E-08	7.65E-11	4.64E-10	2.72E-10	8.12E-10
1171	577127.5	4194080	1.11E-08	3.73E-08	2.91E-08	0.00E+00	7.75E-08	1.73E-09	6.01E-09	4.59E-09	1.23E-08	7.58E-11	4.59E-10	2.70E-10	8.04E-10
1172	577134.6	4194075	1.09E-08	3.67E-08	2.87E-08	0.00E+00	7.63E-08	1.70E-09	5.93E-09	4.53E-09	1.22E-08	7.47E-11	4.52E-10	2.66E-10	7.93E-10
1173	577141.8	4194069	1.07E-08	3.61E-08	2.82E-08	0.00E+00	7.50E-08	1.67E-09	5.82E-09	4.44E-09	1.19E-08	7.33E-11	4.44E-10	2.61E-10	7.78E-10
1174	577148.9	4194063	1.05E-08	3.53E-08	2.75E-08	0.00E+00	7.33E-08	1.63E-09	5.69E-09	4.35E-09	1.17E-08	7.17E-11	4.34E-10	2.55E-10	7.61E-10
1175	577157.9	4194061	1.06E-08	3.55E-08	2.77E-08	0.00E+00	7.38E-08	1.65E-09	5.73E-09	4.38E-09	1.18E-08	7.22E-11	4.37E-10	2.57E-10	7.67E-10
1176	577167	4194060	1.08E-08	3.62E-08	2.82E-08	0.00E+00	7.52E-08	1.68E-09	5.83E-09	4.46E-09	1.20E-08	7.35E-11	4.45E-10	2.62E-10	7.80E-10
1177	577176.1	4194059	1.09E-08	3.68E-08	2.87E-08	0.00E+00	7.64E-08	1.70E-09	5.93E-09	4.53E-09	1.22E-08	7.47E-11	4.53E-10	2.66E-10	7.93E-10
1178	577185.2	4194058	1.11E-08	3.74E-08	2.91E-08	0.00E+00	7.76E-08	1.73E-09	6.02E-09	4.60E-09	1.24E-08	7.59E-11	4.60E-10	2.70E-10	8.06E-10
1179	577194.4	4194057	1.13E-08	3.79E-08	2.96E-08	0.00E+00	7.87E-08	1.75E-09	6.11E-09	4.67E-09	1.25E-08	7.70E-11	4.67E-10	2.74E-10	8.18E-10
1180	577203.5	4194057	1.14E-08	3.85E-08	3.00E-08	0.00E+00	7.99E-08	1.78E-09	6.20E-09	4.74E-09	1.27E-08	7.81E-11	4.73E-10	2.78E-10	8.29E-10
1181	577212.6	4194056	1.16E-08	3.90E-08	3.04E-08	0.00E+00	8.10E-08	1.81E-09	6.29E-09	4.80E-09	1.29E-08	7.93E-11	4.80E-10	2.82E-10	8.41E-10
1182	577221.8	4194055	1.18E-08	3.95E-08	3.09E-08	0.00E+00	8.21E-08	1.83E-09	6.38E-09	4.87E-09	1.31E-08	8.04E-11	4.87E-10	2.86E-10	8.53E-10
1183	577230.9	4194054	1.19E-08	4.01E-08	3.13E-08	0.00E+00	8.33E-08	1.86E-09	6.46E-09	4.94E-09	1.33E-08	8.15E-11	4.93E-10	2.90E-10	8.65E-10
1184	577240	4194053	1.21E-08	4.06E-08	3.17E-08	0.00E+00	8.44E-08	1.88E-09	6.55E-09	5.00E-09	1.34E-08	8.25E-11	5.00E-10	2.94E-10	8.76E-10
1185	577249.1	4194053	1.22E-08	4.11E-08	3.21E-08	0.00E+00	8.54E-08	1.90E-09	6.63E-09	5.07E-09	1.36E-08	8.36E-11	5.06E-10	2.97E-10	8.87E-10
1186	577258.3	4194052	1.24E-08	4.16E-08	3.24E-08	0.00E+00	8.63E-08	1.92E-09	6.70E-09	5.12E-09	1.37E-08	8.45E-11	5.12E-10	3.00E-10	8.96E-10
1187	577069.4	4194115	9.70E-09	3.26E-08	2.55E-08	0.00E+00	6.78E-08	1.51E-09	5.26E-09	4.02E-09	1.08E-08	6.63E-11	4.02E-10	2.36E-10	7.04E-10
1188	577076.5	4194110	9.95E-09	3.35E-08	2.61E-08	0.00E+00	6.95E-08	1.55E-09	5.40E-09	4.12E-09	1.11E-08	6.80E-11	4.12E-10	2.42E-10	7.22E-10
1189	577083.6	4194104	1.01E-08	3.41E-08	2.66E-08	0.00E+00	7.09E-08	1.58E-09	5.51E-09	4.21E-09	1.13E-08	6.94E-11	4.20E-10	2.47E-10	7.36E-10
1190	577090.8	4194098	1.03E-08	3.46E-08	2.70E-08	0.00E+00	7.19E-08	1.60E-09	5.58E-09	4.26E-09	1.14E-08	7.03E-11	4.26E-10	2.50E-10	7.47E-10
1191	577097.9	4194092	1.04E-08	3.49E-08	2.72E-08	0.00E+00	7.25E-08	1.62E-09	5.63E-09	4.30E-09	1.15E-08	7.09E-11	4.29E-10	2.52E-10	7.53E-10
1192	577105	4194086	1.04E-08	3.50E-08	2.73E-08	0.00E+00	7.26E-08	1.62E-09	5.64E-09	4.31E-09	1.16E-08	7.11E-11	4.30E-10	2.53E-10	7.54E-10
1193	577112.1	4194081	1.04E-08	3.49E-08	2.72E-08	0.00E+00	7.24E-08	1.61E-09	5.62E-09	4.30E-09	1.15E-08	7.09E-11	4.29E-10	2.52E-10	7.52E-10
1194	577119.3	4194075	1.03E-08	3.46E-08	2.70E-08	0.00E+00	7.19E-08	1.60E-09	5.58E-09	4.26E-09	1.14E-08	7.03E-11	4.26E-10	2.50E-10	7.46E-10
1195	577126.4	4194069	1.02E-08	3.42E-08	2.67E-08	0.00E+00	7.10E-08	1.58E-09	5.51E-09	4.21E-09	1.13E-08	6.94E-11	4.21E-10	2.47E-10	7.37E-10
1196	577133.5	4194063	9.99E-09	3.36E-08	2.62E-08	0.00E+00	6.98E-08	1.56E-09	5.42E-09	4.14E-09	1.11E-08	6.83E-11	4.14E-10	2.43E-10	7.25E-10
1197	577140.6	4194058	9.79E-09	3.30E-08	2.57E-08	0.00E+00	6.85E-08	1.53E-09	5.31E-09	4.06E-09	1.09E-08	6.70E-11	4.06E-10	2.38E-10	7.11E-10
1198	577147.9	4194052	9.59E-09	3.23E-08	2.52E-08	0.00E+00	6.71E-08	1.49E-09	5.21E-09	3.98E-09	1.07E-08	6.56E-11	3.97E-10	2.33E-10	6.96E-10
1199	577157	4194051	9.77E-09	3.29E-08	2.57E-08	0.00E+00	6.83E-08	1.52E-09	5.30E-09	4.05E-09	1.09E-08	6.68E-11	4.05E-10	2.38E-10	7.09E-10
1200	577166.1	4194050	9.93E-09	3.34E-08	2.61E-08	0.00E+00	6.94E-08	1.55E-09	5.39E-09	4.12E-09	1.11E-08	6.79E-11	4.11E-10	2.42E-10	7.21E-10
1201	577175.3	4194050	1.01E-08	3.39E-08	2.65E-08	0.00E+00	7.05E-08	1.57E-09	5.47E-09	4.18E-09	1.12E-08	6.89E-11	4.18E-10	2.45E-10	7.32E-10
1202	577184.4	4194049	1.02E-08	3.44E-08	2.69E-08	0.00E+00	7.15E-08	1.59E-09	5.55E-09	4.24E-09	1.14E-08	6.99E-11	4.24E-10	2.49E-10	7.42E-10
1203	577193.5	4194048	1.04E-08	3.49E-08	2.72E-08	0.00E+00	7.25E-08	1.62E-09	5.63E-09	4.30E-09	1.15E-08	7.09E-11	4.30E-10	2.52E-10	7.53E-10
1204	577202.7	4194047	1.05E-08	3.54E-08	2.76E-08	0.00E+00	7.35E-08	1.64E-09	5.70E-09	4.36E-09	1.17E-08	7.19E-11	4.35E-10	2.56E-10	7.63E-10
1205	577211.8	4194046	1.07E-08	3.59E-08	2.80E-08	0.00E+00	7.45E-08	1.66E-09	5.78E-09	4.42E-09	1.19E-08	7.29E-11	4.41E-10	2.59E-10	7.73E-10
1206	577220.9	4194046	1.08E-08	3.63E-08	2.83E-08	0.00E+00	7.55E-08	1.68E-09	5.86E-09	4.47E-09	1.20E-08	7.38E-11	4.47E-10	2.63E-10	7.83E-10
1207	577230	4194045	1.09E-08	3.68E-08	2.87E-08	0.00E+00	7.65E-08	1.70E-09	5.94E-09	4.54E-09	1.22E-08	7.48E-11	4.53E-10	2.66E-10	7.94E-10
1208	577239.2	4194044	1.11E-08	3.73E-08	2.91E-08	0.00E+00	7.75E-08	1.73E-09	6.01E-09	4.59E-09	1.23E-08	7.58E-11	4.59E-10	2.70E-10	8.04E-10
1209	577248.3	4194043	1.12E-08	3.77E-08	2.94E-08	0.00E+00	7.84E-08	1.75E-09	6.08E-09	4.65E-09	1.25E-08	7.67E-11	4.64E-10	2.73E-10	8.14E-10
1210	577257.4	4194042	1.13E-08	3.81E-08	2.97E-08	0.00E+00	7.92E-08	1.76E-09	6.15E-09	4.70E-09	1.26E-08	7.75E-11	4.69E-10	2.76E-10	8.22E-10
1211	577061	4194110	8.95E-09	3.01E-08	2.35E-08	0.00E+00	6.26E-08	1.39E-09	4.86E-09	3.71E-09	9.96E-09	6.12E-11	3.71E-10	2.18E-10	6.49E-10
1212	577068.1	4194104	9.17E-09	3.09E-08	2.41E-08	0.00E+00	6.41E-08	1.43E-09	4.98E-09	3.80E-09	1.02E-08	6.27E-11	3.80E-10	2.23E-10	6.66E-10
1213	577075.2	4194098	9.36E-09	3.15E-08	2.46E-08	0.00E+00	6.54E-08	1.46E-09	5.08E-09	3.88E-09	1.04E-08	6.40E-11	3.88E-10	2.28E-10	6.79E-10
1214	577082.3	4194092	9.49E-09	3.20E-08	2.49E-08	0.00E+00	6.64E-08	1.48E-09	5.15E-09	3.94E-09	1.06E-08	6.49E-11	3.93E-10	2.31E-10	6.89E-10
1215	577089.4	4194087	9.58E-09	3.22E-08	2.52E-08	0.00E+00	6.70E-08	1.49E-09	5.20E-09	3.97E-09	1.07E-08	6.55E-11	3.97E-10	2.33E-10	6.96E-10
1216	577096.5	4194081	9.62E-09	3.24E-08	2.53E-08	0.00E+00	6.73E-08	1.50E-09	5.22E-09	3.99E-09	1.07E-08	6.58E-11	3.98E-10	2.34E-10	6.98E-10
1217	577103.6	4194075	9.61E-09	3.23E-08	2.52E-08	0.00E+00	6.72E-08	1.50E-09	5.21E-09	3.98E-09	1.07E-08	6.57E-11	3.98E-10	2.34E-10	6.98E-10
1218	577110.7	4194069	9.55E-09	3.22E-08	2.51E-08	0.00E+00	6.68E-08	1.49E-09	5.18E-09	3.96E-09	1.06E-08	6.53E-11	3.96E-10	2.32E-10	6.93E-10
1219	577117.8	4194064	9.46E-09	3.18E-08	2.48E-08	0.00E+00	6.61E-08	1.47E-09	5.13E-09	3.92E-09	1.05E-08	6.47E-11	3.92E-10	2.30E-10	6.87E-10
1220	577124.9	4194058	9.33E-09	3.14E-08	2.45E-08	0.00E+00	6.52E-08	1.45E-09	5.06E-09	3.87E-09	1.04E-08	6.38E-11	3.86E-10	2.27E-10	6.77E-10
1221	577132	4194052	9.17E-09	3.08E-08	2.41E-08	0.00E+00	6.41E-08	1.43E-09	4.97E-09	3.80E-09	1.02E-08	6.27E-11	3.80E-10	2.23E-10	6.65E-10
1222	577139.1	4194046	8.98E-09	3.02E-08	2.36E-08	0.00E+00	6.28E-08	1.40E-09	4.87E-09	3.72E-09	9.99E-09	6.14E-11	3.72E-10	2.18E-10	6.52E-10
1223	577147.5	4194042	8.92E-09	3.00E-08	2.34E-08	0.00E+00	6.23E-08	1.39E-09	4.84E-09	3.70E-09	9.93E-09	6.10E-11	3.69E-10	2.17E-10	6.47E-10
1224	577156.6	4194042	9.06E-09	3.05E-08	2.38E-08	0.00E+00	6.34E-08	1.41E-09	4.92E-09	3.76E-09	1.01E-08	6.20E-11	3.75E-10	2.20E-10	6.58E-10
1225	577165.7	4194041	9.20E-09	3.10E-08	2.42E-08	0.00E+00	6.43E-08	1.43E-09	4.99E-09	3.81E-09	1.02E-08	6.29E-11	3.81E-10	2.24E-10	6.68E-10
1226	577174.8	4194040	9.33E-09	3.14E-08	2.45E-08	0.00E+00	6.52E-08	1.45E-09	5.06E-09	3.87E-09	1.04E-08	6.38E-11	3.86E-10	2.27E-10	6.77E-10

1227	577183.9	4194039	9.46E-09	3.18E-08	2.48E-08	0.00E+00	6.61E-08	1.47E-09	5.13E-09	3.92E-09	1.05E-08	6.47E-11	3.92E-10	2.30E-10	6.86E-10
1228	577193	4194038	9.58E-09	3.22E-08	2.52E-08	0.00E+00	6.70E-08	1.49E-09	5.20E-09	3.97E-09	1.07E-08	6.55E-11	3.97E-10	2.33E-10	6.96E-10
1229	577202.1	4194038	9.71E-09	3.27E-08	2.55E-08	0.00E+00	6.79E-08	1.51E-09	5.27E-09	4.02E-09	1.08E-08	6.64E-11	4.02E-10	2.36E-10	7.05E-10
1230	577211.2	4194037	9.83E-09	3.31E-08	2.58E-08	0.00E+00	6.87E-08	1.53E-09	5.33E-09	4.08E-09	1.09E-08	6.72E-11	4.07E-10	2.39E-10	7.14E-10
1231	577220.3	4194036	9.96E-09	3.35E-08	2.61E-08	0.00E+00	6.96E-08	1.55E-09	5.40E-09	4.13E-09	1.11E-08	6.81E-11	4.12E-10	2.42E-10	7.23E-10
1232	577229.4	4194035	1.01E-08	3.39E-08	2.65E-08	0.00E+00	7.05E-08	1.57E-09	5.47E-09	4.18E-09	1.12E-08	6.90E-11	4.18E-10	2.45E-10	7.32E-10
1233	577238.5	4194034	1.02E-08	3.43E-08	2.68E-08	0.00E+00	7.14E-08	1.59E-09	5.54E-09	4.23E-09	1.14E-08	6.98E-11	4.23E-10	2.48E-10	7.41E-10
1234	577247.6	4194034	1.03E-08	3.47E-08	2.71E-08	0.00E+00	7.21E-08	1.61E-09	5.60E-09	4.28E-09	1.15E-08	7.06E-11	4.27E-10	2.51E-10	7.49E-10
1235	577256.7	4194033	1.04E-08	3.51E-08	2.74E-08	0.00E+00	7.29E-08	1.62E-09	5.65E-09	4.32E-09	1.16E-08	7.13E-11	4.32E-10	2.53E-10	7.56E-10
1236	577265.8	4194032	1.05E-08	3.54E-08	2.76E-08	0.00E+00	7.35E-08	1.64E-09	5.70E-09	4.36E-09	1.17E-08	7.19E-11	4.35E-10	2.56E-10	7.63E-10
1237	577045.7	4194110	8.03E-09	2.70E-08	2.11E-08	0.00E+00	5.62E-08	1.25E-09	4.36E-09	3.33E-09	8.94E-09	5.49E-11	3.33E-10	1.95E-10	5.83E-10
1238	577052.8	4194104	8.28E-09	2.79E-08	2.17E-08	0.00E+00	5.79E-08	1.29E-09	4.49E-09	3.43E-09	9.21E-09	5.66E-11	3.43E-10	2.01E-10	6.01E-10
1239	577059.9	4194098	8.48E-09	2.86E-08	2.23E-08	0.00E+00	5.93E-08	1.32E-09	4.60E-09	3.52E-09	9.44E-09	5.80E-11	3.51E-10	2.06E-10	6.16E-10
1240	577067	4194093	8.66E-09	2.91E-08	2.27E-08	0.00E+00	6.05E-08	1.35E-09	4.70E-09	3.59E-09	9.63E-09	5.92E-11	3.59E-10	2.11E-10	6.28E-10
1241	577074.1	4194087	8.79E-09	2.96E-08	2.31E-08	0.00E+00	6.14E-08	1.37E-09	4.77E-09	3.64E-09	9.78E-09	6.01E-11	3.64E-10	2.14E-10	6.38E-10
1242	577081.2	4194081	8.88E-09	2.99E-08	2.33E-08	0.00E+00	6.21E-08	1.38E-09	4.82E-09	3.68E-09	9.88E-09	6.07E-11	3.68E-10	2.16E-10	6.44E-10
1243	577088.3	4194075	8.93E-09	3.00E-08	2.34E-08	0.00E+00	6.24E-08	1.39E-09	4.84E-09	3.70E-09	9.93E-09	6.10E-11	3.70E-10	2.17E-10	6.48E-10
1244	577095.4	4194070	8.93E-09	3.00E-08	2.34E-08	0.00E+00	6.24E-08	1.39E-09	4.85E-09	3.70E-09	9.94E-09	6.11E-11	3.70E-10	2.17E-10	6.48E-10
1245	577102.5	4194064	8.89E-09	2.99E-08	2.33E-08	0.00E+00	6.22E-08	1.39E-09	4.83E-09	3.69E-09	9.90E-09	6.08E-11	3.68E-10	2.16E-10	6.45E-10
1246	577109.6	4194058	8.82E-09	2.97E-08	2.32E-08	0.00E+00	6.17E-08	1.37E-09	4.79E-09	3.66E-09	9.82E-09	6.03E-11	3.65E-10	2.15E-10	6.40E-10
1247	577116.7	4194052	8.71E-09	2.93E-08	2.29E-08	0.00E+00	6.09E-08	1.36E-09	4.73E-09	3.61E-09	9.70E-09	5.96E-11	3.61E-10	2.12E-10	6.33E-10
1248	577123.8	4194047	8.58E-09	2.89E-08	2.25E-08	0.00E+00	6.00E-08	1.34E-09	4.66E-09	3.56E-09	9.55E-09	5.87E-11	3.55E-10	2.09E-10	6.23E-10
1249	577130.9	4194041	8.42E-09	2.83E-08	2.21E-08	0.00E+00	5.89E-08	1.31E-09	4.57E-09	3.49E-09	9.38E-09	5.76E-11	3.49E-10	2.05E-10	6.11E-10
1250	577138	4194035	8.25E-09	2.77E-08	2.17E-08	0.00E+00	5.76E-08	1.28E-09	4.47E-09	3.42E-09	9.18E-09	5.64E-11	3.42E-10	2.01E-10	5.98E-10
1251	577147.1	4194033	8.30E-09	2.79E-08	2.18E-08	0.00E+00	5.80E-08	1.29E-09	4.51E-09	3.44E-09	9.24E-09	5.68E-11	3.44E-10	2.02E-10	6.03E-10
1252	577156.2	4194032	8.43E-09	2.84E-08	2.21E-08	0.00E+00	5.89E-08	1.31E-09	4.57E-09	3.49E-09	9.38E-09	5.76E-11	3.49E-10	2.05E-10	6.12E-10
1253	577165.3	4194031	8.54E-09	2.88E-08	2.24E-08	0.00E+00	5.97E-08	1.33E-09	4.64E-09	3.54E-09	9.51E-09	5.84E-11	3.54E-10	2.08E-10	6.20E-10
1254	577174.4	4194030	8.66E-09	2.91E-08	2.27E-08	0.00E+00	6.05E-08	1.35E-09	4.70E-09	3.59E-09	9.63E-09	5.92E-11	3.59E-10	2.11E-10	6.28E-10
1255	577183.5	4194030	8.77E-09	2.95E-08	2.30E-08	0.00E+00	6.13E-08	1.37E-09	4.76E-09	3.63E-09	9.76E-09	5.99E-11	3.63E-10	2.13E-10	6.36E-10
1256	577192.6	4194029	8.88E-09	2.99E-08	2.33E-08	0.00E+00	6.21E-08	1.38E-09	4.82E-09	3.68E-09	9.88E-09	6.07E-11	3.68E-10	2.16E-10	6.44E-10
1257	577201.7	4194028	8.99E-09	3.02E-08	2.36E-08	0.00E+00	6.28E-08	1.40E-09	4.88E-09	3.73E-09	1.00E-08	6.15E-11	3.72E-10	2.19E-10	6.52E-10
1258	577210.8	4194027	9.10E-09	3.06E-08	2.39E-08	0.00E+00	6.36E-08	1.42E-09	4.94E-09	3.77E-09	1.01E-08	6.22E-11	3.77E-10	2.21E-10	6.60E-10
1259	577219.9	4194026	9.21E-09	3.10E-08	2.42E-08	0.00E+00	6.44E-08	1.44E-09	5.00E-09	3.82E-09	1.03E-08	6.30E-11	3.82E-10	2.24E-10	6.69E-10
1260	577229	4194026	9.32E-09	3.14E-08	2.45E-08	0.00E+00	6.52E-08	1.45E-09	5.06E-09	3.87E-09	1.04E-08	6.38E-11	3.86E-10	2.27E-10	6.77E-10
1261	577238.1	4194025	9.43E-09	3.17E-08	2.48E-08	0.00E+00	6.59E-08	1.47E-09	5.12E-09	3.91E-09	1.05E-08	6.45E-11	3.91E-10	2.29E-10	6.85E-10
1262	577247.2	4194024	9.53E-09	3.21E-08	2.50E-08	0.00E+00	6.66E-08	1.48E-09	5.17E-09	3.95E-09	1.06E-08	6.52E-11	3.95E-10	2.32E-10	6.92E-10
1263	577256.3	4194023	9.62E-09	3.24E-08	2.53E-08	0.00E+00	6.72E-08	1.50E-09	5.22E-09	3.99E-09	1.07E-08	6.58E-11	3.98E-10	2.34E-10	6.98E-10
1264	577265.4	4194022	9.70E-09	3.26E-08	2.55E-08	0.00E+00	6.78E-08	1.51E-09	5.26E-09	4.02E-09	1.08E-08	6.63E-11	4.02E-10	2.36E-10	7.04E-10
1265	577037.4	4194104	7.45E-09	2.51E-08	1.96E-08	0.00E+00	5.21E-08	1.16E-09	4.04E-09	3.09E-09	8.29E-09	5.09E-11	3.08E-10	1.81E-10	5.41E-10
1266	577044.5	4194099	7.67E-09	2.58E-08	2.01E-08	0.00E+00	5.36E-08	1.20E-09	4.16E-09	3.18E-09	8.54E-09	5.25E-11	3.18E-10	1.87E-10	5.57E-10
1267	577051.6	4194093	7.87E-09	2.65E-08	2.07E-08	0.00E+00	5.50E-08	1.23E-09	4.27E-09	3.26E-09	8.76E-09	5.38E-11	3.26E-10	1.91E-10	5.71E-10
1268	577058.7	4194087	8.03E-09	2.70E-08	2.11E-08	0.00E+00	5.61E-08	1.25E-09	4.36E-09	3.33E-09	8.93E-09	5.49E-11	3.33E-10	1.95E-10	5.83E-10
1269	577065.8	4194081	8.15E-09	2.74E-08	2.14E-08	0.00E+00	5.70E-08	1.27E-09	4.42E-09	3.38E-09	9.08E-09	5.58E-11	3.38E-10	1.98E-10	5.92E-10
1270	577072.9	4194076	8.24E-09	2.77E-08	2.16E-08	0.00E+00	5.76E-08	1.28E-09	4.47E-09	3.42E-09	9.18E-09	5.64E-11	3.42E-10	2.01E-10	5.98E-10
1271	577080	4194070	8.30E-09	2.79E-08	2.18E-08	0.00E+00	5.80E-08	1.29E-09	4.50E-09	3.44E-09	9.24E-09	5.67E-11	3.44E-10	2.02E-10	6.02E-10
1272	577087.1	4194064	8.31E-09	2.80E-08	2.18E-08	0.00E+00	5.81E-08	1.29E-09	4.51E-09	3.45E-09	9.25E-09	5.68E-11	3.44E-10	2.02E-10	6.03E-10
1273	577094.2	4194058	8.29E-09	2.79E-08	2.18E-08	0.00E+00	5.80E-08	1.29E-09	4.50E-09	3.44E-09	9.23E-09	5.67E-11	3.43E-10	2.02E-10	6.02E-10
1274	577101.3	4194052	8.24E-09	2.77E-08	2.16E-08	0.00E+00	5.76E-08	1.28E-09	4.47E-09	3.41E-09	9.17E-09	5.63E-11	3.41E-10	2.00E-10	5.98E-10
1275	577108.4	4194047	8.15E-09	2.74E-08	2.14E-08	0.00E+00	5.70E-08	1.27E-09	4.42E-09	3.38E-09	9.07E-09	5.58E-11	3.38E-10	1.98E-10	5.92E-10
1276	577115.5	4194041	8.04E-09	2.71E-08	2.11E-08	0.00E+00	5.62E-08	1.25E-09	4.36E-09	3.33E-09	8.95E-09	5.50E-11	3.33E-10	1.96E-10	5.84E-10
1277	577122.6	4194035	7.91E-09	2.66E-08	2.08E-08	0.00E+00	5.53E-08	1.23E-09	4.29E-09	3.28E-09	8.80E-09	5.41E-11	3.28E-10	1.92E-10	5.74E-10
1278	577129.8	4194029	7.76E-09	2.61E-08	2.04E-08	0.00E+00	5.42E-08	1.21E-09	4.21E-09	3.22E-09	8.64E-09	5.31E-11	3.21E-10	1.89E-10	5.63E-10
1279	577137.1	4194024	7.62E-09	2.57E-08	2.00E-08	0.00E+00	5.33E-08	1.19E-09	4.14E-09	3.16E-09	8.48E-09	5.21E-11	3.16E-10	1.85E-10	5.53E-10
1280	577146.2	4194023	7.74E-09	2.60E-08	2.03E-08	0.00E+00	5.41E-08	1.21E-09	4.20E-09	3.21E-09	8.61E-09	5.29E-11	3.21E-10	1.88E-10	5.62E-10
1281	577155.3	4194023	7.85E-09	2.64E-08	2.06E-08	0.00E+00	5.49E-08	1.22E-09	4.26E-09	3.25E-09	8.73E-09	5.37E-11	3.25E-10	1.91E-10	5.69E-10
1282	577164.4	4194022	7.95E-09	2.67E-08	2.09E-08	0.00E+00	5.55E-08	1.24E-09	4.31E-09	3.29E-09	8.84E-09	5.43E-11	3.29E-10	1.93E-10	5.77E-10
1283	577173.5	4194021	8.04E-09	2.71E-08	2.11E-08	0.00E+00	5.62E-08	1.25E-09	4.36E-09	3.33E-09	8.95E-09	5.50E-11	3.33E-10	1.96E-10	5.84E-10
1284	577182.6	4194020	8.14E-09	2.74E-08	2.14E-08	0.00E+00	5.69E-08	1.27E-09	4.42E-09	3.37E-09	9.06E-09	5.57E-11	3.37E-10	1.98E-10	5.91E-10
1285	577191.7	4194019	8.24E-09	2.77E-08	2.16E-08	0.00E+00	5.76E-08	1.28E-09	4.47E-09	3.42E-09	9.17E-09	5.63E-11	3.41E-10	2.00E-10	5.98E-10
1286	577200.8	4194019	8.34E-09	2.81E-08	2.19E-08	0.00E+00	5.83E-08	1.30E-09	4.52E-09	3.46E-09	9.28E-09	5.70E-11	3.45E-10	2.03E-10	6.05E-10
1287	577210	4194018	8.44E-09	2.84E-08	2.22E-08	0.00E+00	5.90E-08	1.31E-09	4.58E-09	3.50E-09	9.39E-09	5.77E-11	3.49E-10	2.05E-10	6.12E-10
1288	577219.1	4194017	8.54E-09	2.87E-08	2.24E-08	0.00E+00	5.97E-08	1.33E-09	4.63E-09	3.54E-09	9.50E-09	5.84E-11	3.54E-10	2.08E-10	6.20E-10
1289	577228.2	4194016	8.64E-09	2.91E-08	2.27E-08	0.00E+00	6.04E-08	1.35E-09	4.69E-09	3.58E-09	9.62E-09	5.91E-11	3.58E-10	2.10E-10	6.27E-10
1290	577237.3	4194015	8.73E-09	2.94E-08	2.29E-08	0.00E+00	6.11E-08	1.36E-09	4.74E-09	3.62E-09	9.72E-09	5.97E-11	3.62E-10	2.12E-10	6.34E-10
1291	577246.4	4194014	8.82E-09	2.97E-08	2.32E-08	0.00E+00	6.17E-08	1.37E-09	4.79E-09	3.66E-09	9.82E-09	6.03E-11	3.65E-10	2.15E-10	6.40E-10
1292	577255.5	4194014	8.90E-09	3.00E-08	2.34E-08	0.00E+00	6.22E-08	1.39E-09	4.83E-09	3.69E-09	9.91E-09	6.09E-11	3.69E-10	2.16E-10	6.46E-10
1293	577264.6	4194013	8.97E-09	3.02E-08	2.36E-08	0.00E+00	6.27E-08	1.40E-09	4.87E-09	3.72E-09	9.98E-09	6.13E-11	3.72E-10	2.18E-10	6.51E-10
1294	577022	4194104	6.69E-09	2.25E-08	1.76E-08	0.00E+00	4.67E-08	1.04E-09	3.63E-09	2.77E-09	7.44E-09	4.57E-11	2.77E-10	1.63E-10	4.85E-10
1295	577029.1	4194099	6.92E-09	2.33E-08	1.82E-08	0.00E+00	4.84E-08	1.08E-09	3.75E-09	2.87E-09	7.70E-09	4.73E-11	2.87E-10	1.68E-10	5.02E-10
1296	577036.2	4194093	7.12E-09	2.40E-08	1.87E-08	0.00E+00	4.98E-08	1.11E-09	3.87E-09	2.95E-09	7.93E-09	4.87E-11	2.95E-10	1.73E-10	5.17E-10
1297	577043.3	4194087	7.31E-09	2.46E-08	1.92E-08	0.00E+00	5.11E-08	1.14E-09	3.96E-09	3.03E-09	8.13E-09	5.00E-11	3.03E-10	1.78E-10	5.30E-10
1298	577050.4	4194081	7.46E-09	2.51E-08	1.96E-08	0.00E+00	5.21E-08	1.16E-09	4.05E-09	3.09E-09	8.30E-09	5.10E-11	3.09E-10	1.81E-10	5.41E-10
1299	577057.5	4194076	7.58E-09	2.55E-08	1.99E-08	0.00E+00	5.30E-08	1.18E-09	4.11E-09	3.14E-09	8.44E-09	5.18E-11	3.14E-10	1.84E-10	5.50E-10
1300	577064.6	4194070	7.67E-09	2.58E-08	2.01E-08	0.00E+00	5.36E-08	1.20E-09	4.16E-09	3.18E-09	8.54E-09	5.25E-11	3.18E-10	1.87E-10	5.57E-10
1301	577071.7	4194064	7.73E-09	2.60E-08	2.03E-08	0.00E+00	5.40E-08	1.20E-09	4.19E-09	3.20E-09	8.60E-09	5.29E-11	3.20E-10	1.88E-10	5.61E-10
1302	577078.9	4194058	7.75E-09	2.61E-08	2.04E-08	0.00E+00	5.42E-08	1.21E-09	4.21E-09	3.21E-09	8.63E-09	5.30E-11	3.21E-10	1.89E-10	5.63E-10
1303	577086	4194053	7.74E-09	2.61E-08	2.03E-08	0.00E+00	5.41E-08	1.21E-09	4.20E-09	3.21E-09	8.62E-09	5.30E-11	3.21E-10	1.88E-10	5.62E-10
1304	577093.1	4194047	7.70E-09	2.59E-08	2.02E-08	0.00E+00	5.39E-08	1.20E-09	4.18E-09	3.19E-09	8.58E-09	5.27E-11	3.19E-10	1.87E-10	5.59E-10
1305	577100.2	4194041	7.64E-09	2.57E-08	2.01E-08	0.00E+00	5.34E-08	1.19E-09	4.15E-09	3.17E-09	8.50E-09	5.22E-11	3.16E-10	1.86E-10	5.54E-10
1306	577107.3	4194035	7.55E-09	2.54E-08	1.98E-08	0.00E+00	5.28E-08	1.18E-09	4.10E-09	3.13E-09	8.40E-09	5.16E-11	3.13E-10	1.84E-10	5.48E-10
1307	577114.4	4194030	7.44E-09	2.50E-08	1.95E-08	0.00E+00	5.20E-08	1.16E-09	4.04E-09	3.08E-09	8.28E-09	5.09E-11	3.08E-10	1.81E-10	5.40E-10
1308	577121.5	4194024	7.31E-09	2.46E-08	1.92E-08	0.00E+00	5.11E-08	1.14E-09	3.97E-09	3.03E-09	8.13E-09	5.00E-11	3.03E-10	1.78E-10	5.30E-10

1309	577128.6	4194018	7.16E-09	2.41E-08	1.88E-08	0.00E+00	5.01E-08	1.12E-09	3.89E-09	2.97E-09	7.97E-09	4.90E-11	2.97E-10	1.74E-10	5.20E-10
1310	577137.2	4194015	7.14E-09	2.40E-08	1.87E-08	0.00E+00	4.99E-08	1.11E-09	3.87E-09	2.96E-09	7.94E-09	4.88E-11	2.96E-10	1.74E-10	5.18E-10
1311	577146.3	4194014	7.24E-09	2.44E-08	1.90E-08	0.00E+00	5.06E-08	1.13E-09	3.93E-09	3.00E-09	8.05E-09	4.95E-11	3.00E-10	1.76E-10	5.25E-10
1312	577155.4	4194013	7.33E-09	2.47E-08	1.92E-08	0.00E+00	5.12E-08	1.14E-09	3.98E-09	3.04E-09	8.16E-09	5.01E-11	3.04E-10	1.78E-10	5.32E-10
1313	577164.5	4194012	7.41E-09	2.49E-08	1.95E-08	0.00E+00	5.18E-08	1.16E-09	4.02E-09	3.07E-09	8.25E-09	5.07E-11	3.07E-10	1.80E-10	5.38E-10
1314	577173.6	4194011	7.50E-09	2.52E-08	1.97E-08	0.00E+00	5.24E-08	1.17E-09	4.07E-09	3.11E-09	8.34E-09	5.13E-11	3.11E-10	1.82E-10	5.44E-10
1315	577182.7	4194011	7.58E-09	2.55E-08	1.99E-08	0.00E+00	5.30E-08	1.18E-09	4.11E-09	3.14E-09	8.44E-09	5.19E-11	3.14E-10	1.84E-10	5.50E-10
1316	577191.8	4194010	7.67E-09	2.58E-08	2.01E-08	0.00E+00	5.36E-08	1.19E-09	4.16E-09	3.18E-09	8.54E-09	5.25E-11	3.18E-10	1.87E-10	5.57E-10
1317	577200.9	4194009	7.76E-09	2.61E-08	2.04E-08	0.00E+00	5.42E-08	1.21E-09	4.21E-09	3.22E-09	8.64E-09	5.31E-11	3.21E-10	1.89E-10	5.63E-10
1318	577210.1	4194008	7.85E-09	2.64E-08	2.06E-08	0.00E+00	5.49E-08	1.22E-09	4.26E-09	3.25E-09	8.74E-09	5.37E-11	3.25E-10	1.91E-10	5.70E-10
1319	577219.2	4194007	7.94E-09	2.67E-08	2.09E-08	0.00E+00	5.55E-08	1.24E-09	4.31E-09	3.29E-09	8.84E-09	5.43E-11	3.29E-10	1.93E-10	5.77E-10
1320	577228.3	4194006	8.03E-09	2.70E-08	2.11E-08	0.00E+00	5.62E-08	1.25E-09	4.36E-09	3.33E-09	8.94E-09	5.49E-11	3.33E-10	1.95E-10	5.83E-10
1321	577237.4	4194006	8.12E-09	2.73E-08	2.13E-08	0.00E+00	5.68E-08	1.27E-09	4.41E-09	3.37E-09	9.04E-09	5.55E-11	3.36E-10	1.98E-10	5.90E-10
1322	577246.5	4194005	8.20E-09	2.76E-08	2.15E-08	0.00E+00	5.73E-08	1.28E-09	4.45E-09	3.40E-09	9.13E-09	5.61E-11	3.40E-10	1.99E-10	5.95E-10
1323	577255.6	4194004	8.27E-09	2.78E-08	2.17E-08	0.00E+00	5.78E-08	1.29E-09	4.49E-09	3.43E-09	9.20E-09	5.66E-11	3.43E-10	2.01E-10	6.00E-10
1324	577264.7	4194003	8.33E-09	2.80E-08	2.19E-08	0.00E+00	5.82E-08	1.30E-09	4.52E-09	3.45E-09	9.27E-09	5.70E-11	3.45E-10	2.03E-10	6.05E-10
1325	577273.9	4194002	8.38E-09	2.82E-08	2.20E-08	0.00E+00	5.86E-08	1.31E-09	4.55E-09	3.47E-09	9.33E-09	5.73E-11	3.47E-10	2.04E-10	6.08E-10
1326	577006.6	4194105	6.01E-09	2.02E-08	1.58E-08	0.00E+00	4.20E-08	9.36E-10	3.26E-09	2.49E-09	6.69E-09	4.11E-11	2.49E-10	1.46E-10	4.36E-10
1327	577013.7	4194099	6.23E-09	2.10E-08	1.64E-08	0.00E+00	4.36E-08	9.71E-10	3.38E-09	2.58E-09	6.94E-09	4.26E-11	2.58E-10	1.52E-10	4.52E-10
1328	577020.8	4194093	6.44E-09	2.17E-08	1.69E-08	0.00E+00	4.50E-08	1.00E-09	3.49E-09	2.67E-09	7.17E-09	4.40E-11	2.67E-10	1.57E-10	4.67E-10
1329	577027.9	4194087	6.63E-09	2.23E-08	1.74E-08	0.00E+00	4.64E-08	1.03E-09	3.60E-09	2.75E-09	7.38E-09	4.53E-11	2.75E-10	1.61E-10	4.81E-10
1330	577035	4194082	6.80E-09	2.29E-08	1.79E-08	0.00E+00	4.75E-08	1.06E-09	3.69E-09	2.82E-09	7.57E-09	4.65E-11	2.82E-10	1.65E-10	4.94E-10
1331	577042.1	4194076	6.94E-09	2.34E-08	1.82E-08	0.00E+00	4.85E-08	1.08E-09	3.77E-09	2.88E-09	7.73E-09	4.75E-11	2.88E-10	1.69E-10	5.04E-10
1332	577049.3	4194070	7.06E-09	2.38E-08	1.85E-08	0.00E+00	4.94E-08	1.10E-09	3.83E-09	2.93E-09	7.86E-09	4.83E-11	2.92E-10	1.72E-10	5.13E-10
1333	577056.4	4194064	7.15E-09	2.41E-08	1.88E-08	0.00E+00	5.00E-08	1.11E-09	3.88E-09	2.96E-09	7.96E-09	4.89E-11	2.96E-10	1.74E-10	5.19E-10
1334	577063.5	4194059	7.21E-09	2.43E-08	1.89E-08	0.00E+00	5.04E-08	1.12E-09	3.91E-09	2.99E-09	8.03E-09	4.93E-11	2.99E-10	1.75E-10	5.23E-10
1335	577070.6	4194053	7.24E-09	2.44E-08	1.90E-08	0.00E+00	5.06E-08	1.13E-09	3.93E-09	3.00E-09	8.06E-09	4.95E-11	3.00E-10	1.76E-10	5.26E-10
1336	577077.7	4194047	7.24E-09	2.44E-08	1.90E-08	0.00E+00	5.06E-08	1.13E-09	3.93E-09	3.00E-09	8.06E-09	4.95E-11	3.00E-10	1.76E-10	5.26E-10
1337	577084.8	4194041	7.22E-09	2.43E-08	1.90E-08	0.00E+00	5.05E-08	1.12E-09	3.92E-09	2.99E-09	8.03E-09	4.94E-11	2.99E-10	1.76E-10	5.24E-10
1338	577091.9	4194035	7.17E-09	2.41E-08	1.88E-08	0.00E+00	5.01E-08	1.12E-09	3.89E-09	2.97E-09	7.98E-09	4.90E-11	2.97E-10	1.74E-10	5.20E-10
1339	577099	4194030	7.09E-09	2.39E-08	1.86E-08	0.00E+00	4.96E-08	1.11E-09	3.85E-09	2.94E-09	7.90E-09	4.85E-11	2.94E-10	1.73E-10	5.15E-10
1340	577106.1	4194024	7.00E-09	2.36E-08	1.84E-08	0.00E+00	4.89E-08	1.09E-09	3.80E-09	2.90E-09	7.79E-09	4.79E-11	2.90E-10	1.70E-10	5.08E-10
1341	577113.3	4194018	6.89E-09	2.32E-08	1.81E-08	0.00E+00	4.82E-08	1.07E-09	3.74E-09	2.86E-09	7.67E-09	4.71E-11	2.85E-10	1.68E-10	5.00E-10
1342	577120.4	4194012	6.76E-09	2.28E-08	1.78E-08	0.00E+00	4.73E-08	1.05E-09	3.67E-09	2.80E-09	7.53E-09	4.63E-11	2.80E-10	1.65E-10	4.91E-10
1343	577127.5	4194007	6.63E-09	2.23E-08	1.74E-08	0.00E+00	4.63E-08	1.03E-09	3.60E-09	2.75E-09	7.37E-09	4.53E-11	2.74E-10	1.61E-10	4.81E-10
1344	577136.8	4194005	6.69E-09	2.25E-08	1.76E-08	0.00E+00	4.67E-08	1.04E-09	3.63E-09	2.77E-09	7.44E-09	4.57E-11	2.77E-10	1.63E-10	4.85E-10
1345	577145.9	4194004	6.77E-09	2.28E-08	1.78E-08	0.00E+00	4.73E-08	1.05E-09	3.67E-09	2.81E-09	7.54E-09	4.63E-11	2.80E-10	1.65E-10	4.91E-10
1346	577155	4194003	6.85E-09	2.31E-08	1.80E-08	0.00E+00	4.79E-08	1.07E-09	3.72E-09	2.84E-09	7.62E-09	4.68E-11	2.84E-10	1.67E-10	4.97E-10
1347	577164.1	4194003	6.92E-09	2.33E-08	1.82E-08	0.00E+00	4.84E-08	1.08E-09	3.76E-09	2.87E-09	7.71E-09	4.74E-11	2.87E-10	1.68E-10	5.03E-10
1348	577173.2	4194002	7.00E-09	2.36E-08	1.84E-08	0.00E+00	4.89E-08	1.09E-09	3.80E-09	2.90E-09	7.79E-09	4.79E-11	2.90E-10	1.70E-10	5.08E-10
1349	577182.3	4194001	7.07E-09	2.38E-08	1.86E-08	0.00E+00	4.95E-08	1.10E-09	3.84E-09	2.93E-09	7.87E-09	4.84E-11	2.93E-10	1.72E-10	5.13E-10
1350	577191.5	4194000	7.15E-09	2.41E-08	1.88E-08	0.00E+00	5.00E-08	1.11E-09	3.88E-09	2.96E-09	7.96E-09	4.89E-11	2.96E-10	1.74E-10	5.19E-10
1351	577200.6	4193999	7.23E-09	2.43E-08	1.90E-08	0.00E+00	5.06E-08	1.13E-09	3.92E-09	3.00E-09	8.05E-09	4.95E-11	3.00E-10	1.76E-10	5.25E-10
1352	577209.7	4193999	7.32E-09	2.46E-08	1.92E-08	0.00E+00	5.11E-08	1.14E-09	3.97E-09	3.03E-09	8.14E-09	5.00E-11	3.03E-10	1.78E-10	5.31E-10
1353	577218.8	4193998	7.40E-09	2.49E-08	1.94E-08	0.00E+00	5.17E-08	1.15E-09	4.02E-09	3.07E-09	8.24E-09	5.06E-11	3.07E-10	1.80E-10	5.37E-10
1354	577227.9	4193997	7.49E-09	2.52E-08	1.97E-08	0.00E+00	5.23E-08	1.17E-09	4.06E-09	3.10E-09	8.33E-09	5.12E-11	3.10E-10	1.82E-10	5.43E-10
1355	577237	4193996	7.56E-09	2.55E-08	1.99E-08	0.00E+00	5.29E-08	1.18E-09	4.10E-09	3.14E-09	8.42E-09	5.17E-11	3.13E-10	1.84E-10	5.49E-10
1356	577246.2	4193995	7.64E-09	2.57E-08	2.01E-08	0.00E+00	5.34E-08	1.19E-09	4.14E-09	3.17E-09	8.50E-09	5.22E-11	3.16E-10	1.86E-10	5.54E-10
1357	577255.3	4193994	7.70E-09	2.59E-08	2.02E-08	0.00E+00	5.38E-08	1.20E-09	4.18E-09	3.19E-09	8.57E-09	5.26E-11	3.19E-10	1.87E-10	5.59E-10
1358	577264.4	4193994	7.75E-09	2.61E-08	2.04E-08	0.00E+00	5.42E-08	1.21E-09	4.21E-09	3.21E-09	8.63E-09	5.30E-11	3.21E-10	1.89E-10	5.63E-10
1359	577273.5	4193993	7.80E-09	2.62E-08	2.05E-08	0.00E+00	5.45E-08	1.21E-09	4.23E-09	3.23E-09	8.68E-09	5.33E-11	3.23E-10	1.90E-10	5.66E-10
1360	576998.3	4194099	5.61E-09	1.89E-08	1.47E-08	0.00E+00	3.92E-08	8.75E-10	3.05E-09	2.33E-09	6.25E-09	3.84E-11	2.33E-10	1.37E-10	4.07E-10
1361	577005.4	4194093	5.82E-09	1.96E-08	1.53E-08	0.00E+00	4.07E-08	9.07E-10	3.16E-09	2.41E-09	6.48E-09	3.98E-11	2.41E-10	1.42E-10	4.23E-10
1362	577012.5	4194088	6.01E-09	2.02E-08	1.58E-08	0.00E+00	4.20E-08	9.37E-10	3.26E-09	2.49E-09	6.69E-09	4.11E-11	2.49E-10	1.46E-10	4.36E-10
1363	577019.6	4194082	6.18E-09	2.08E-08	1.62E-08	0.00E+00	4.32E-08	9.64E-10	3.36E-09	2.56E-09	6.88E-09	4.23E-11	2.56E-10	1.50E-10	4.49E-10
1364	577026.8	4194076	6.34E-09	2.13E-08	1.67E-08	0.00E+00	4.43E-08	9.88E-10	3.44E-09	2.63E-09	7.06E-09	4.34E-11	2.63E-10	1.54E-10	4.60E-10
1365	577033.9	4194070	6.48E-09	2.18E-08	1.70E-08	0.00E+00	4.53E-08	1.01E-09	3.52E-09	2.69E-09	7.21E-09	4.43E-11	2.68E-10	1.58E-10	4.70E-10
1366	577041	4194064	6.59E-09	2.22E-08	1.73E-08	0.00E+00	4.61E-08	1.03E-09	3.58E-09	2.73E-09	7.33E-09	4.51E-11	2.73E-10	1.60E-10	4.78E-10
1367	577048.1	4194059	6.68E-09	2.25E-08	1.75E-08	0.00E+00	4.67E-08	1.04E-09	3.62E-09	2.77E-09	7.43E-09	4.57E-11	2.77E-10	1.62E-10	4.85E-10
1368	577055.2	4194053	6.74E-09	2.27E-08	1.77E-08	0.00E+00	4.71E-08	1.05E-09	3.66E-09	2.79E-09	7.50E-09	4.61E-11	2.79E-10	1.64E-10	4.89E-10
1369	577062.3	4194047	6.77E-09	2.28E-08	1.78E-08	0.00E+00	4.74E-08	1.06E-09	3.68E-09	2.81E-09	7.54E-09	4.63E-11	2.81E-10	1.65E-10	4.92E-10
1370	577069.4	4194041	6.79E-09	2.28E-08	1.78E-08	0.00E+00	4.74E-08	1.06E-09	3.68E-09	2.81E-09	7.55E-09	4.64E-11	2.81E-10	1.65E-10	4.93E-10
1371	577076.5	4194036	6.77E-09	2.28E-08	1.78E-08	0.00E+00	4.73E-08	1.05E-09	3.67E-09	2.81E-09	7.54E-09	4.63E-11	2.80E-10	1.65E-10	4.91E-10
1372	577083.7	4194030	6.73E-09	2.27E-08	1.77E-08	0.00E+00	4.71E-08	1.05E-09	3.65E-09	2.79E-09	7.49E-09	4.60E-11	2.79E-10	1.64E-10	4.89E-10
1373	577090.8	4194024	6.67E-09	2.25E-08	1.75E-08	0.00E+00	4.67E-08	1.04E-09	3.62E-09	2.77E-09	7.43E-09	4.56E-11	2.76E-10	1.62E-10	4.84E-10
1374	577097.9	4194018	6.60E-09	2.22E-08	1.73E-08	0.00E+00	4.61E-08	1.03E-09	3.58E-09	2.74E-09	7.34E-09	4.51E-11	2.73E-10	1.60E-10	4.79E-10
1375	577105	4194013	6.50E-09	2.19E-08	1.71E-08	0.00E+00	4.55E-08	1.01E-09	3.53E-09	2.70E-09	7.24E-09	4.45E-11	2.69E-10	1.58E-10	4.72E-10
1376	577112.1	4194007	6.39E-09	2.15E-08	1.68E-08	0.00E+00	4.47E-08	9.96E-10	3.47E-09	2.65E-09	7.12E-09	4.37E-11	2.65E-10	1.56E-10	4.64E-10
1377	577119.2	4194001	6.27E-09	2.11E-08	1.65E-08	0.00E+00	4.39E-08	9.78E-10	3.40E-09	2.60E-09	6.98E-09	4.29E-11	2.60E-10	1.53E-10	4.55E-10
1378	577127.2	4193996	6.19E-09	2.08E-08	1.63E-08	0.00E+00	4.33E-08	9.65E-10	3.36E-09	2.57E-09	6.89E-09	4.24E-11	2.57E-10	1.51E-10	4.50E-10
1379	577136.4	4193995	6.27E-09	2.11E-08	1.65E-08	0.00E+00	4.39E-08	9.77E-10	3.40E-09	2.60E-09	6.98E-09	4.29E-11	2.60E-10	1.53E-10	4.55E-10
1380	577145.5	4193995	6.35E-09	2.14E-08	1.67E-08	0.00E+00	4.44E-08	9.89E-10	3.44E-09	2.63E-09	7.06E-09	4.34E-11	2.63E-10	1.54E-10	4.61E-10
1381	577154.6	4193994	6.41E-09	2.16E-08	1.68E-08	0.00E+00	4.48E-08	9.99E-10	3.48E-09	2.66E-09	7.14E-09	4.39E-11	2.66E-10	1.56E-10	4.66E-10
1382	577163.7	4193993	6.48E-09	2.18E-08	1.70E-08	0.00E+00	4.53E-08	1.01E-09	3.52E-09	2.69E-09	7.21E-09	4.43E-11	2.68E-10	1.58E-10	4.70E-10
1383	577172.8	4193992	6.55E-09	2.20E-08	1.72E-08	0.00E+00	4.58E-08	1.02E-09	3.55E-09	2.71E-09	7.29E-09	4.48E-11	2.71E-10	1.59E-10	4.75E-10
1384	577182	4193991	6.61E-09	2.23E-08	1.74E-08	0.00E+00	4.62E-08	1.03E-09	3.59E-09	2.74E-09	7.36E-09	4.52E-11	2.74E-10	1.61E-10	4.80E-10
1385	577191.1	4193991	6.68E-09	2.25E-08	1.75E-08	0.00E+00	4.67E-08	1.04E-09	3.63E-09	2.77E-09	7.44E-09	4.57E-11	2.77E-10	1.63E-10	4.85E-10
1386	577200.2	4193990	6.76E-09	2.27E-08	1.77E-08	0.00E+00	4.72E-08	1.05E-09	3.67E-09	2.80E-09	7.52E-09	4.62E-11	2.80E-10	1.64E-10	4.90E-10
1387	577209.3	4193989	6.83E-09	2.30E-08	1.79E-08	0.00E+00	4.78E-08	1.06E-09	3.71E-09	2.83E-09	7.61E-09	4.67E-11	2.83E-10	1.66E-10	4.96E-10
1388	577218.4	4193988	6.91E-09	2.33E-08	1.82E-08	0.00E+00	4.83E-08	1.08E-09	3.75E-09	2.87E-09	7.69E-09	4.73E-11	2.86E-10	1.68E-10	5.02E-10
1389	577227.6	4193987	6.99E-09	2.35E-08	1.84E-08	0.00E+00	4.89E-08	1.09E-09	3.79E-09	2.90E-09	7.78E-09	4.78E-11	2.89E-10	1.70E-10	5.07E-10
1390	577236.7	4193987	7.06E-09	2.38E-08	1.85E-08	0.00E+00	4.94E-08	1.10E-09	3.83E-09	2.93E-09	7.86E-09	4.83E-11	2.92E-10	1.72E-10	5.13E-10

1391	577245.8	4193986	7.13E-09	2.40E-08	1.87E-08	0.00E+00	4.98E-08	1.11E-09	3.87E-09	2.95E-09	7.93E-09	4.87E-11	2.95E-10	1.73E-10	5.17E-10
1392	577254.9	4193985	7.18E-09	2.42E-08	1.89E-08	0.00E+00	5.02E-08	1.12E-09	3.90E-09	2.98E-09	7.99E-09	4.91E-11	2.98E-10	1.75E-10	5.21E-10
1393	577264	4193984	7.23E-09	2.43E-08	1.90E-08	0.00E+00	5.06E-08	1.13E-09	3.92E-09	3.00E-09	8.05E-09	4.95E-11	3.00E-10	1.76E-10	5.25E-10
1394	577273.2	4193983	7.27E-09	2.45E-08	1.91E-08	0.00E+00	5.08E-08	1.13E-09	3.95E-09	3.01E-09	8.09E-09	4.97E-11	3.01E-10	1.77E-10	5.28E-10
1395	576990	4194093	5.25E-09	1.77E-08	1.38E-08	0.00E+00	3.67E-08	8.19E-10	2.85E-09	2.18E-09	5.85E-09	3.59E-11	2.18E-10	1.28E-10	3.81E-10
1396	576997.1	4194088	5.45E-09	1.83E-08	1.43E-08	0.00E+00	3.81E-08	8.49E-10	2.96E-09	2.26E-09	6.06E-09	3.73E-11	2.26E-10	1.33E-10	3.96E-10
1397	577004.2	4194082	5.62E-09	1.89E-08	1.48E-08	0.00E+00	3.93E-08	8.76E-10	3.05E-09	2.33E-09	6.26E-09	3.85E-11	2.33E-10	1.37E-10	4.08E-10
1398	577011.4	4194076	5.78E-09	1.95E-08	1.52E-08	0.00E+00	4.04E-08	9.01E-10	3.14E-09	2.40E-09	6.44E-09	3.96E-11	2.40E-10	1.41E-10	4.20E-10
1399	577018.5	4194070	5.93E-09	2.00E-08	1.56E-08	0.00E+00	4.14E-08	9.24E-10	3.22E-09	2.46E-09	6.60E-09	4.05E-11	2.46E-10	1.44E-10	4.30E-10
1400	577025.6	4194065	6.06E-09	2.04E-08	1.59E-08	0.00E+00	4.23E-08	9.44E-10	3.29E-09	2.51E-09	6.74E-09	4.14E-11	2.51E-10	1.47E-10	4.40E-10
1401	577032.7	4194059	6.16E-09	2.07E-08	1.62E-08	0.00E+00	4.31E-08	9.60E-10	3.34E-09	2.55E-09	6.86E-09	4.21E-11	2.55E-10	1.50E-10	4.47E-10
1402	577039.8	4194053	6.24E-09	2.10E-08	1.64E-08	0.00E+00	4.37E-08	9.73E-10	3.39E-09	2.59E-09	6.95E-09	4.27E-11	2.59E-10	1.52E-10	4.53E-10
1403	577046.9	4194047	6.30E-09	2.12E-08	1.66E-08	0.00E+00	4.41E-08	9.82E-10	3.42E-09	2.61E-09	7.02E-09	4.31E-11	2.61E-10	1.53E-10	4.58E-10
1404	577054.1	4194042	6.35E-09	2.14E-08	1.67E-08	0.00E+00	4.44E-08	9.89E-10	3.44E-09	2.63E-09	7.06E-09	4.34E-11	2.63E-10	1.54E-10	4.61E-10
1405	577061.2	4194036	6.36E-09	2.14E-08	1.67E-08	0.00E+00	4.45E-08	9.92E-10	3.45E-09	2.64E-09	7.08E-09	4.35E-11	2.64E-10	1.55E-10	4.62E-10
1406	577068.3	4194030	6.36E-09	2.14E-08	1.67E-08	0.00E+00	4.45E-08	9.91E-10	3.45E-09	2.64E-09	7.08E-09	4.35E-11	2.63E-10	1.55E-10	4.62E-10
1407	577075.4	4194024	6.33E-09	2.13E-08	1.66E-08	0.00E+00	4.43E-08	9.87E-10	3.44E-09	2.63E-09	7.05E-09	4.33E-11	2.62E-10	1.54E-10	4.60E-10
1408	577082.5	4194018	6.29E-09	2.12E-08	1.65E-08	0.00E+00	4.39E-08	9.79E-10	3.41E-09	2.61E-09	7.00E-09	4.30E-11	2.60E-10	1.53E-10	4.56E-10
1409	577089.6	4194013	6.22E-09	2.09E-08	1.63E-08	0.00E+00	4.35E-08	9.70E-10	3.38E-09	2.58E-09	6.93E-09	4.26E-11	2.58E-10	1.51E-10	4.52E-10
1410	577096.7	4194007	6.14E-09	2.07E-08	1.61E-08	0.00E+00	4.30E-08	9.57E-10	3.33E-09	2.55E-09	6.84E-09	4.20E-11	2.55E-10	1.49E-10	4.46E-10
1411	577103.9	4194001	6.05E-09	2.04E-08	1.59E-08	0.00E+00	4.23E-08	9.43E-10	3.28E-09	2.51E-09	6.74E-09	4.14E-11	2.51E-10	1.47E-10	4.39E-10
1412	577111	4193995	5.95E-09	2.00E-08	1.56E-08	0.00E+00	4.16E-08	9.26E-10	3.23E-09	2.46E-09	6.62E-09	4.07E-11	2.46E-10	1.45E-10	4.32E-10
1413	577118.1	4193990	5.83E-09	1.96E-08	1.53E-08	0.00E+00	4.08E-08	9.08E-10	3.16E-09	2.42E-09	6.49E-09	3.99E-11	2.41E-10	1.42E-10	4.23E-10
1414	577126.9	4193987	5.83E-09	1.96E-08	1.53E-08	0.00E+00	4.07E-08	9.08E-10	3.16E-09	2.42E-09	6.48E-09	3.98E-11	2.41E-10	1.42E-10	4.23E-10
1415	577136	4193986	5.89E-09	1.98E-08	1.55E-08	0.00E+00	4.12E-08	9.18E-10	3.20E-09	2.44E-09	6.56E-09	4.03E-11	2.44E-10	1.43E-10	4.28E-10
1416	577145.1	4193985	5.96E-09	2.01E-08	1.56E-08	0.00E+00	4.17E-08	9.28E-10	3.23E-09	2.47E-09	6.63E-09	4.07E-11	2.47E-10	1.45E-10	4.32E-10
1417	577154.2	4193984	6.02E-09	2.03E-08	1.58E-08	0.00E+00	4.21E-08	9.37E-10	3.27E-09	2.49E-09	6.70E-09	4.11E-11	2.49E-10	1.46E-10	4.37E-10
1418	577163.3	4193983	6.07E-09	2.04E-08	1.60E-08	0.00E+00	4.25E-08	9.47E-10	3.30E-09	2.52E-09	6.76E-09	4.15E-11	2.52E-10	1.48E-10	4.41E-10
1419	577172.5	4193983	6.13E-09	2.06E-08	1.61E-08	0.00E+00	4.29E-08	9.56E-10	3.33E-09	2.54E-09	6.83E-09	4.19E-11	2.54E-10	1.49E-10	4.45E-10
1420	577181.6	4193982	6.19E-09	2.08E-08	1.63E-08	0.00E+00	4.33E-08	9.65E-10	3.36E-09	2.57E-09	6.89E-09	4.24E-11	2.57E-10	1.51E-10	4.50E-10
1421	577190.7	4193981	6.26E-09	2.11E-08	1.64E-08	0.00E+00	4.37E-08	9.75E-10	3.40E-09	2.59E-09	6.96E-09	4.28E-11	2.59E-10	1.52E-10	4.54E-10
1422	577199.8	4193980	6.32E-09	2.13E-08	1.66E-08	0.00E+00	4.42E-08	9.85E-10	3.43E-09	2.62E-09	7.04E-09	4.32E-11	2.62E-10	1.54E-10	4.59E-10
1423	577209	4193979	6.39E-09	2.15E-08	1.68E-08	0.00E+00	4.47E-08	9.96E-10	3.47E-09	2.65E-09	7.12E-09	4.37E-11	2.65E-10	1.56E-10	4.64E-10
1424	577218.1	4193979	6.47E-09	2.18E-08	1.70E-08	0.00E+00	4.52E-08	1.01E-09	3.51E-09	2.68E-09	7.20E-09	4.42E-11	2.68E-10	1.57E-10	4.69E-10
1425	577227.2	4193978	6.54E-09	2.20E-08	1.72E-08	0.00E+00	4.57E-08	1.02E-09	3.55E-09	2.71E-09	7.28E-09	4.47E-11	2.71E-10	1.59E-10	4.74E-10
1426	577236.3	4193977	6.60E-09	2.22E-08	1.73E-08	0.00E+00	4.62E-08	1.03E-09	3.58E-09	2.74E-09	7.35E-09	4.52E-11	2.73E-10	1.61E-10	4.79E-10
1427	577245.4	4193976	6.66E-09	2.24E-08	1.75E-08	0.00E+00	4.66E-08	1.04E-09	3.62E-09	2.76E-09	7.42E-09	4.56E-11	2.76E-10	1.62E-10	4.84E-10
1428	577254.6	4193975	6.72E-09	2.26E-08	1.76E-08	0.00E+00	4.69E-08	1.05E-09	3.64E-09	2.78E-09	7.47E-09	4.59E-11	2.78E-10	1.63E-10	4.87E-10
1429	577263.7	4193974	6.76E-09	2.27E-08	1.77E-08	0.00E+00	4.73E-08	1.05E-09	3.67E-09	2.80E-09	7.52E-09	4.62E-11	2.80E-10	1.64E-10	4.91E-10
1430	577272.8	4193974	6.79E-09	2.29E-08	1.78E-08	0.00E+00	4.75E-08	1.06E-09	3.69E-09	2.82E-09	7.56E-09	4.64E-11	2.81E-10	1.65E-10	4.93E-10
1431	576981.7	4194088	4.93E-09	1.66E-08	1.30E-08	0.00E+00	3.45E-08	7.69E-10	2.68E-09	2.05E-09	5.49E-09	3.37E-11	2.04E-10	1.20E-10	3.58E-10
1432	576988.8	4194082	5.11E-09	1.72E-08	1.34E-08	0.00E+00	3.57E-08	7.96E-10	2.77E-09	2.12E-09	5.69E-09	3.50E-11	2.12E-10	1.24E-10	3.71E-10
1433	576996	4194076	5.27E-09	1.77E-08	1.38E-08	0.00E+00	3.69E-08	8.21E-10	2.86E-09	2.19E-09	5.87E-09	3.61E-11	2.18E-10	1.28E-10	3.83E-10
1434	577003.1	4194071	5.42E-09	1.82E-08	1.42E-08	0.00E+00	3.79E-08	8.44E-10	2.94E-09	2.25E-09	6.03E-09	3.71E-11	2.24E-10	1.32E-10	3.93E-10
1435	577010.2	4194065	5.56E-09	1.87E-08	1.46E-08	0.00E+00	3.88E-08	8.66E-10	3.01E-09	2.30E-09	6.18E-09	3.80E-11	2.30E-10	1.35E-10	4.03E-10
1436	577017.3	4194059	5.68E-09	1.91E-08	1.49E-08	0.00E+00	3.97E-08	8.84E-10	3.08E-09	2.35E-09	6.32E-09	3.88E-11	2.35E-10	1.38E-10	4.12E-10
1437	577024.4	4194053	5.78E-09	1.94E-08	1.52E-08	0.00E+00	4.04E-08	9.00E-10	3.13E-09	2.39E-09	6.43E-09	3.95E-11	2.39E-10	1.41E-10	4.19E-10
1438	577031.5	4194047	5.85E-09	1.97E-08	1.54E-08	0.00E+00	4.09E-08	9.12E-10	3.18E-09	2.43E-09	6.52E-09	4.00E-11	2.43E-10	1.42E-10	4.25E-10
1439	577038.7	4194042	5.91E-09	1.99E-08	1.55E-08	0.00E+00	4.13E-08	9.21E-10	3.21E-09	2.45E-09	6.58E-09	4.04E-11	2.45E-10	1.44E-10	4.29E-10
1440	577045.8	4194036	5.95E-09	2.00E-08	1.56E-08	0.00E+00	4.16E-08	9.28E-10	3.23E-09	2.47E-09	6.63E-09	4.07E-11	2.47E-10	1.45E-10	4.32E-10
1441	577052.9	4194030	5.98E-09	2.01E-08	1.57E-08	0.00E+00	4.18E-08	9.31E-10	3.24E-09	2.48E-09	6.65E-09	4.09E-11	2.48E-10	1.45E-10	4.34E-10
1442	577060	4194024	5.98E-09	2.01E-08	1.57E-08	0.00E+00	4.18E-08	9.32E-10	3.24E-09	2.48E-09	6.66E-09	4.09E-11	2.48E-10	1.45E-10	4.34E-10
1443	577067.1	4194019	5.96E-09	2.01E-08	1.57E-08	0.00E+00	4.17E-08	9.29E-10	3.24E-09	2.47E-09	6.64E-09	4.08E-11	2.47E-10	1.45E-10	4.33E-10
1444	577074.3	4194013	5.93E-09	1.99E-08	1.56E-08	0.00E+00	4.14E-08	9.23E-10	3.22E-09	2.46E-09	6.60E-09	4.05E-11	2.45E-10	1.44E-10	4.30E-10
1445	577081.4	4194007	5.88E-09	1.98E-08	1.54E-08	0.00E+00	4.11E-08	9.15E-10	3.19E-09	2.44E-09	6.54E-09	4.02E-11	2.43E-10	1.43E-10	4.26E-10
1446	577088.5	4194001	5.81E-09	1.96E-08	1.53E-08	0.00E+00	4.06E-08	9.05E-10	3.15E-09	2.41E-09	6.47E-09	3.97E-11	2.41E-10	1.41E-10	4.22E-10
1447	577095.6	4193996	5.73E-09	1.93E-08	1.50E-08	0.00E+00	4.01E-08	8.93E-10	3.11E-09	2.38E-09	6.38E-09	3.92E-11	2.37E-10	1.39E-10	4.16E-10
1448	577102.7	4193990	5.64E-09	1.90E-08	1.48E-08	0.00E+00	3.94E-08	8.79E-10	3.06E-09	2.34E-09	6.28E-09	3.86E-11	2.34E-10	1.37E-10	4.09E-10
1449	577109.8	4193984	5.54E-09	1.86E-08	1.45E-08	0.00E+00	3.87E-08	8.63E-10	3.00E-09	2.30E-09	6.16E-09	3.79E-11	2.29E-10	1.35E-10	4.02E-10
1450	577117	4193978	5.43E-09	1.83E-08	1.43E-08	0.00E+00	3.80E-08	8.46E-10	2.95E-09	2.25E-09	6.04E-09	3.71E-11	2.25E-10	1.32E-10	3.94E-10
1451	577126	4193977	5.48E-09	1.85E-08	1.44E-08	0.00E+00	3.83E-08	8.54E-10	2.98E-09	2.27E-09	6.10E-09	3.75E-11	2.27E-10	1.33E-10	3.98E-10
1452	577135.1	4193976	5.54E-09	1.87E-08	1.46E-08	0.00E+00	3.88E-08	8.64E-10	3.01E-09	2.30E-09	6.17E-09	3.79E-11	2.30E-10	1.35E-10	4.02E-10
1453	577144.2	4193976	5.60E-09	1.88E-08	1.47E-08	0.00E+00	3.91E-08	8.72E-10	3.04E-09	2.32E-09	6.23E-09	3.83E-11	2.32E-10	1.36E-10	4.06E-10
1454	577153.4	4193975	5.65E-09	1.90E-08	1.48E-08	0.00E+00	3.95E-08	8.80E-10	3.07E-09	2.34E-09	6.29E-09	3.86E-11	2.34E-10	1.37E-10	4.10E-10
1455	577162.5	4193974	5.70E-09	1.92E-08	1.50E-08	0.00E+00	3.99E-08	8.88E-10	3.09E-09	2.36E-09	6.35E-09	3.90E-11	2.36E-10	1.39E-10	4.14E-10
1456	577171.6	4193973	5.75E-09	1.94E-08	1.51E-08	0.00E+00	4.02E-08	8.96E-10	3.12E-09	2.39E-09	6.40E-09	3.93E-11	2.38E-10	1.40E-10	4.18E-10
1457	577180.7	4193972	5.81E-09	1.95E-08	1.53E-08	0.00E+00	4.06E-08	9.05E-10	3.15E-09	2.41E-09	6.47E-09	3.97E-11	2.41E-10	1.41E-10	4.22E-10
1458	577189.9	4193971	5.87E-09	1.97E-08	1.54E-08	0.00E+00	4.10E-08	9.14E-10	3.18E-09	2.43E-09	6.53E-09	4.01E-11	2.43E-10	1.43E-10	4.26E-10
1459	577199	4193971	5.93E-09	2.00E-08	1.56E-08	0.00E+00	4.14E-08	9.24E-10	3.22E-09	2.46E-09	6.60E-09	4.05E-11	2.46E-10	1.44E-10	4.30E-10
1460	577208.1	4193970	5.99E-09	2.02E-08	1.57E-08	0.00E+00	4.19E-08	9.34E-10	3.25E-09	2.48E-09	6.67E-09	4.10E-11	2.48E-10	1.46E-10	4.35E-10
1461	577217.2	4193969	6.06E-09	2.04E-08	1.59E-08	0.00E+00	4.23E-08	9.44E-10	3.29E-09	2.51E-09	6.74E-09	4.14E-11	2.51E-10	1.47E-10	4.40E-10
1462	577226.4	4193968	6.12E-09	2.06E-08	1.61E-08	0.00E+00	4.28E-08	9.54E-10	3.32E-09	2.54E-09	6.81E-09	4.19E-11	2.54E-10	1.49E-10	4.44E-10
1463	577235.5	4193967	6.18E-09	2.08E-08	1.62E-08	0.00E+00	4.32E-08	9.63E-10	3.36E-09	2.56E-09	6.88E-09	4.23E-11	2.56E-10	1.50E-10	4.49E-10
1464	577244.6	4193967	6.24E-09	2.10E-08	1.64E-08	0.00E+00	4.36E-08	9.72E-10	3.39E-09	2.59E-09	6.94E-09	4.27E-11	2.58E-10	1.52E-10	4.53E-10
1465	577253.7	4193966	6.29E-09	2.12E-08	1.65E-08	0.00E+00	4.40E-08	9.80E-10	3.41E-09	2.61E-09	7.00E-09	4.30E-11	2.60E-10	1.53E-10	4.56E-10
1466	577262.9	4193965	6.33E-09	2.13E-08	1.66E-08	0.00E+00	4.42E-08	9.86E-10	3.43E-09	2.62E-09	7.04E-09	4.33E-11	2.62E-10	1.54E-10	4.59E-10
1467	577272	4193964	6.36E-09	2.14E-08	1.67E-08	0.00E+00	4.44E-08	9.90E-10	3.45E-09	2.64E-09	7.08E-09	4.35E-11	2.63E-10	1.55E-10	4.61E-10
1468	577281.1	4193963	6.38E-09	2.15E-08	1.67E-08	0.00E+00	4.46E-08	9.94E-10	3.46E-09	2.64E-09	7.10E-09	4.36E-11	2.64E-10	1.55E-10	4.63E-10
1469	576973.4	4194082	4.64E-09	1.56E-08	1.22E-08	0.00E+00	3.24E-08	7.22E-10	2.52E-09	1.92E-09	5.16E-09	3.17E-11	1.92E-10	1.13E-10	3.36E-10
1470	576980.6	4194076	4.80E-09	1.62E-08	1.26E-08	0.00E+00	3.36E-08	7.48E-10	2.61E-09	1.99E-09	5.34E-09	3.28E-11	1.99E-10	1.17E-10	3.49E-10
1471	576987.7	4194071	4.95E-09	1.67E-08	1.30E-08	0.00E+00	3.46E-08	7.71E-10	2.69E-09	2.05E-09	5.51E-09	3.39E-11	2.05E-10	1.20E-10	3.59E-10
1472	576994.8	4194065	5.09E-09	1.71E-08	1.34E-08	0.00E+00	3.56E-08	7.93E-10	2.76E-09	2.11E-09	5.66E-09	3.48E-11	2.11E-10	1.24E-10	3.69E-10

1473	577001.9	4194059	5.21E-09	1.75E-08	1.37E-08	0.00E+00	3.65E-08	8.12E-10	2.83E-09	2.16E-09	5.80E-09	3.57E-11	2.16E-10	1.27E-10	3.78E-10
1474	577009	4194053	5.33E-09	1.79E-08	1.40E-08	0.00E+00	3.72E-08	8.30E-10	2.89E-09	2.21E-09	5.93E-09	3.64E-11	2.21E-10	1.30E-10	3.87E-10
1475	577016.2	4194048	5.42E-09	1.83E-08	1.42E-08	0.00E+00	3.79E-08	8.45E-10	2.94E-09	2.25E-09	6.04E-09	3.71E-11	2.25E-10	1.32E-10	3.94E-10
1476	577023.3	4194042	5.50E-09	1.85E-08	1.44E-08	0.00E+00	3.84E-08	8.57E-10	2.98E-09	2.28E-09	6.12E-09	3.76E-11	2.28E-10	1.34E-10	3.99E-10
1477	577030.4	4194036	5.56E-09	1.87E-08	1.46E-08	0.00E+00	3.89E-08	8.66E-10	3.02E-09	2.30E-09	6.19E-09	3.80E-11	2.30E-10	1.35E-10	4.03E-10
1478	577037.5	4194030	5.60E-09	1.88E-08	1.47E-08	0.00E+00	3.91E-08	8.72E-10	3.04E-09	2.32E-09	6.23E-09	3.83E-11	2.32E-10	1.36E-10	4.06E-10
1479	577044.6	4194025	5.62E-09	1.89E-08	1.48E-08	0.00E+00	3.93E-08	8.76E-10	3.05E-09	2.33E-09	6.26E-09	3.85E-11	2.33E-10	1.37E-10	4.08E-10
1480	577051.8	4194019	5.63E-09	1.89E-08	1.48E-08	0.00E+00	3.94E-08	8.77E-10	3.06E-09	2.33E-09	6.27E-09	3.85E-11	2.33E-10	1.37E-10	4.09E-10
1481	577058.9	4194013	5.62E-09	1.89E-08	1.48E-08	0.00E+00	3.93E-08	8.76E-10	3.05E-09	2.33E-09	6.26E-09	3.84E-11	2.33E-10	1.37E-10	4.08E-10
1482	577066	4194007	5.59E-09	1.88E-08	1.47E-08	0.00E+00	3.91E-08	8.72E-10	3.04E-09	2.32E-09	6.23E-09	3.83E-11	2.32E-10	1.36E-10	4.06E-10
1483	577073.1	4194001	5.55E-09	1.87E-08	1.46E-08	0.00E+00	3.88E-08	8.65E-10	3.01E-09	2.30E-09	6.18E-09	3.80E-11	2.30E-10	1.35E-10	4.03E-10
1484	577080.2	4193996	5.50E-09	1.85E-08	1.44E-08	0.00E+00	3.84E-08	8.57E-10	2.98E-09	2.28E-09	6.12E-09	3.76E-11	2.28E-10	1.34E-10	3.99E-10
1485	577087.3	4193990	5.43E-09	1.83E-08	1.43E-08	0.00E+00	3.80E-08	8.46E-10	2.95E-09	2.25E-09	6.04E-09	3.71E-11	2.25E-10	1.32E-10	3.94E-10
1486	577094.5	4193984	5.35E-09	1.80E-08	1.41E-08	0.00E+00	3.74E-08	8.34E-10	2.90E-09	2.22E-09	5.96E-09	3.66E-11	2.22E-10	1.30E-10	3.89E-10
1487	577101.6	4193978	5.26E-09	1.77E-08	1.38E-08	0.00E+00	3.68E-08	8.20E-10	2.86E-09	2.18E-09	5.86E-09	3.60E-11	2.18E-10	1.28E-10	3.82E-10
1488	577108.7	4193973	5.17E-09	1.74E-08	1.36E-08	0.00E+00	3.61E-08	8.05E-10	2.80E-09	2.14E-09	5.75E-09	3.53E-11	2.14E-10	1.26E-10	3.75E-10
1489	577116.9	4193968	5.12E-09	1.72E-08	1.34E-08	0.00E+00	3.58E-08	7.97E-10	2.78E-09	2.12E-09	5.70E-09	3.50E-11	2.12E-10	1.25E-10	3.72E-10
1490	577126.1	4193968	5.17E-09	1.74E-08	1.36E-08	0.00E+00	3.62E-08	8.06E-10	2.81E-09	2.15E-09	5.76E-09	3.54E-11	2.14E-10	1.26E-10	3.76E-10
1491	577135.2	4193967	5.23E-09	1.76E-08	1.37E-08	0.00E+00	3.65E-08	8.14E-10	2.84E-09	2.17E-09	5.82E-09	3.57E-11	2.16E-10	1.27E-10	3.79E-10
1492	577144.3	4193966	5.27E-09	1.77E-08	1.38E-08	0.00E+00	3.69E-08	8.22E-10	2.86E-09	2.19E-09	5.87E-09	3.61E-11	2.18E-10	1.28E-10	3.83E-10
1493	577153.5	4193965	5.32E-09	1.79E-08	1.40E-08	0.00E+00	3.72E-08	8.29E-10	2.89E-09	2.21E-09	5.92E-09	3.64E-11	2.20E-10	1.29E-10	3.86E-10
1494	577162.6	4193964	5.36E-09	1.81E-08	1.41E-08	0.00E+00	3.75E-08	8.36E-10	2.91E-09	2.22E-09	5.97E-09	3.67E-11	2.22E-10	1.30E-10	3.89E-10
1495	577171.7	4193963	5.41E-09	1.82E-08	1.42E-08	0.00E+00	3.78E-08	8.43E-10	2.94E-09	2.24E-09	6.02E-09	3.70E-11	2.24E-10	1.32E-10	3.93E-10
1496	577180.8	4193963	5.46E-09	1.84E-08	1.43E-08	0.00E+00	3.82E-08	8.51E-10	2.96E-09	2.26E-09	6.08E-09	3.74E-11	2.26E-10	1.33E-10	3.96E-10
1497	577190	4193962	5.52E-09	1.86E-08	1.45E-08	0.00E+00	3.86E-08	8.59E-10	2.99E-09	2.29E-09	6.14E-09	3.77E-11	2.29E-10	1.34E-10	4.00E-10
1498	577199.1	4193961	5.57E-09	1.88E-08	1.46E-08	0.00E+00	3.90E-08	8.68E-10	3.02E-09	2.31E-09	6.20E-09	3.81E-11	2.31E-10	1.36E-10	4.05E-10
1499	577208.2	4193960	5.63E-09	1.90E-08	1.48E-08	0.00E+00	3.94E-08	8.78E-10	3.06E-09	2.34E-09	6.27E-09	3.85E-11	2.33E-10	1.37E-10	4.09E-10
1500	577217.3	4193959	5.69E-09	1.92E-08	1.49E-08	0.00E+00	3.98E-08	8.87E-10	3.09E-09	2.36E-09	6.34E-09	3.89E-11	2.36E-10	1.38E-10	4.13E-10
1501	577226.5	4193959	5.75E-09	1.94E-08	1.51E-08	0.00E+00	4.02E-08	8.96E-10	3.12E-09	2.38E-09	6.40E-09	3.93E-11	2.38E-10	1.40E-10	4.17E-10
1502	577235.6	4193958	5.81E-09	1.95E-08	1.52E-08	0.00E+00	4.06E-08	9.05E-10	3.15E-09	2.41E-09	6.46E-09	3.97E-11	2.41E-10	1.41E-10	4.22E-10
1503	577244.7	4193957	5.86E-09	1.97E-08	1.54E-08	0.00E+00	4.10E-08	9.13E-10	3.18E-09	2.43E-09	6.52E-09	4.01E-11	2.43E-10	1.43E-10	4.25E-10
1504	577253.9	4193956	5.90E-09	1.99E-08	1.55E-08	0.00E+00	4.13E-08	9.20E-10	3.20E-09	2.45E-09	6.57E-09	4.04E-11	2.45E-10	1.44E-10	4.29E-10
1505	577263	4193955	5.94E-09	2.00E-08	1.56E-08	0.00E+00	4.15E-08	9.25E-10	3.22E-09	2.46E-09	6.61E-09	4.06E-11	2.46E-10	1.44E-10	4.31E-10
1506	577272.1	4193955	5.96E-09	2.01E-08	1.57E-08	0.00E+00	4.17E-08	9.29E-10	3.24E-09	2.47E-09	6.64E-09	4.08E-11	2.47E-10	1.45E-10	4.33E-10
1507	577281.2	4193954	5.98E-09	2.01E-08	1.57E-08	0.00E+00	4.18E-08	9.32E-10	3.25E-09	2.48E-09	6.66E-09	4.09E-11	2.48E-10	1.46E-10	4.34E-10
1508	576965.1	4194077	4.36E-09	1.47E-08	1.14E-08	0.00E+00	3.05E-08	6.79E-10	2.37E-09	1.81E-09	4.85E-09	2.98E-11	1.81E-10	1.06E-10	3.16E-10
1509	576972.3	4194071	4.52E-09	1.52E-08	1.19E-08	0.00E+00	3.16E-08	7.04E-10	2.45E-09	1.87E-09	5.03E-09	3.09E-11	1.87E-10	1.10E-10	3.28E-10
1510	576979.4	4194065	4.66E-09	1.57E-08	1.22E-08	0.00E+00	3.26E-08	7.26E-10	2.53E-09	1.93E-09	5.18E-09	3.18E-11	1.93E-10	1.13E-10	3.38E-10
1511	576986.5	4194059	4.78E-09	1.61E-08	1.26E-08	0.00E+00	3.34E-08	7.45E-10	2.60E-09	1.98E-09	5.32E-09	3.27E-11	1.98E-10	1.16E-10	3.47E-10
1512	576993.6	4194054	4.90E-09	1.65E-08	1.29E-08	0.00E+00	3.43E-08	7.64E-10	2.66E-09	2.03E-09	5.45E-09	3.35E-11	2.03E-10	1.19E-10	3.56E-10
1513	577000.8	4194048	5.01E-09	1.69E-08	1.31E-08	0.00E+00	3.50E-08	7.80E-10	2.72E-09	2.08E-09	5.57E-09	3.42E-11	2.07E-10	1.22E-10	3.63E-10
1514	577007.9	4194042	5.10E-09	1.72E-08	1.34E-08	0.00E+00	3.56E-08	7.94E-10	2.77E-09	2.11E-09	5.67E-09	3.49E-11	2.11E-10	1.24E-10	3.70E-10
1515	577015	4194036	5.17E-09	1.74E-08	1.36E-08	0.00E+00	3.62E-08	8.06E-10	2.81E-09	2.14E-09	5.76E-09	3.54E-11	2.14E-10	1.26E-10	3.75E-10
1516	577022.1	4194030	5.23E-09	1.76E-08	1.37E-08	0.00E+00	3.66E-08	8.15E-10	2.84E-09	2.17E-09	5.82E-09	3.58E-11	2.17E-10	1.27E-10	3.80E-10
1517	577029.2	4194025	5.27E-09	1.77E-08	1.38E-08	0.00E+00	3.69E-08	8.21E-10	2.86E-09	2.19E-09	5.87E-09	3.61E-11	2.18E-10	1.28E-10	3.83E-10
1518	577036.4	4194019	5.30E-09	1.78E-08	1.39E-08	0.00E+00	3.70E-08	8.26E-10	2.88E-09	2.20E-09	5.90E-09	3.62E-11	2.19E-10	1.29E-10	3.85E-10
1519	577043.5	4194013	5.31E-09	1.79E-08	1.39E-08	0.00E+00	3.71E-08	8.27E-10	2.88E-09	2.20E-09	5.91E-09	3.63E-11	2.20E-10	1.29E-10	3.85E-10
1520	577050.6	4194007	5.31E-09	1.79E-08	1.39E-08	0.00E+00	3.71E-08	8.27E-10	2.88E-09	2.20E-09	5.90E-09	3.63E-11	2.20E-10	1.29E-10	3.85E-10
1521	577057.7	4194002	5.29E-09	1.78E-08	1.39E-08	0.00E+00	3.70E-08	8.24E-10	2.87E-09	2.19E-09	5.88E-09	3.61E-11	2.19E-10	1.29E-10	3.84E-10
1522	577064.8	4193996	5.25E-09	1.77E-08	1.38E-08	0.00E+00	3.67E-08	8.18E-10	2.85E-09	2.18E-09	5.85E-09	3.59E-11	2.18E-10	1.28E-10	3.81E-10
1523	577072	4193990	5.21E-09	1.75E-08	1.37E-08	0.00E+00	3.64E-08	8.11E-10	2.83E-09	2.16E-09	5.80E-09	3.56E-11	2.16E-10	1.27E-10	3.78E-10
1524	577079.1	4193984	5.15E-09	1.73E-08	1.35E-08	0.00E+00	3.60E-08	8.03E-10	2.80E-09	2.14E-09	5.73E-09	3.52E-11	2.13E-10	1.25E-10	3.74E-10
1525	577086.2	4193979	5.08E-09	1.71E-08	1.34E-08	0.00E+00	3.55E-08	7.92E-10	2.76E-09	2.11E-09	5.66E-09	3.48E-11	2.11E-10	1.24E-10	3.69E-10
1526	577093.3	4193973	5.01E-09	1.69E-08	1.31E-08	0.00E+00	3.50E-08	7.80E-10	2.72E-09	2.08E-09	5.57E-09	3.42E-11	2.07E-10	1.22E-10	3.63E-10
1527	577100.5	4193967	4.92E-09	1.66E-08	1.29E-08	0.00E+00	3.44E-08	7.67E-10	2.67E-09	2.04E-09	5.48E-09	3.37E-11	2.04E-10	1.20E-10	3.57E-10
1528	577107.6	4193961	4.83E-09	1.63E-08	1.27E-08	0.00E+00	3.38E-08	7.52E-10	2.62E-09	2.00E-09	5.37E-09	3.30E-11	2.00E-10	1.17E-10	3.51E-10
1529	577116.6	4193959	4.84E-09	1.63E-08	1.27E-08	0.00E+00	3.38E-08	7.54E-10	2.63E-09	2.01E-09	5.38E-09	3.31E-11	2.00E-10	1.18E-10	3.51E-10
1530	577125.7	4193958	4.89E-09	1.64E-08	1.28E-08	0.00E+00	3.42E-08	7.61E-10	2.65E-09	2.03E-09	5.44E-09	3.34E-11	2.02E-10	1.19E-10	3.55E-10
1531	577134.8	4193957	4.93E-09	1.66E-08	1.29E-08	0.00E+00	3.45E-08	7.68E-10	2.68E-09	2.04E-09	5.49E-09	3.37E-11	2.04E-10	1.20E-10	3.58E-10
1532	577143.9	4193956	4.97E-09	1.67E-08	1.31E-08	0.00E+00	3.48E-08	7.75E-10	2.70E-09	2.06E-09	5.53E-09	3.40E-11	2.06E-10	1.21E-10	3.61E-10
1533	577153.1	4193956	5.01E-09	1.69E-08	1.32E-08	0.00E+00	3.50E-08	7.81E-10	2.72E-09	2.08E-09	5.58E-09	3.43E-11	2.08E-10	1.22E-10	3.64E-10
1534	577162.2	4193955	5.05E-09	1.70E-08	1.33E-08	0.00E+00	3.53E-08	7.87E-10	2.74E-09	2.09E-09	5.62E-09	3.46E-11	2.09E-10	1.23E-10	3.67E-10
1535	577171.3	4193954	5.10E-09	1.72E-08	1.34E-08	0.00E+00	3.56E-08	7.94E-10	2.77E-09	2.11E-09	5.67E-09	3.49E-11	2.11E-10	1.24E-10	3.70E-10
1536	577180.5	4193953	5.14E-09	1.73E-08	1.35E-08	0.00E+00	3.60E-08	8.01E-10	2.79E-09	2.13E-09	5.72E-09	3.52E-11	2.13E-10	1.25E-10	3.73E-10
1537	577189.6	4193952	5.19E-09	1.75E-08	1.36E-08	0.00E+00	3.63E-08	8.09E-10	2.82E-09	2.15E-09	5.78E-09	3.55E-11	2.15E-10	1.26E-10	3.77E-10
1538	577198.7	4193951	5.25E-09	1.77E-08	1.38E-08	0.00E+00	3.67E-08	8.17E-10	2.85E-09	2.17E-09	5.84E-09	3.59E-11	2.17E-10	1.28E-10	3.81E-10
1539	577207.8	4193951	5.30E-09	1.78E-08	1.39E-08	0.00E+00	3.71E-08	8.26E-10	2.88E-09	2.20E-09	5.90E-09	3.62E-11	2.20E-10	1.29E-10	3.85E-10
1540	577217	4193950	5.35E-09	1.80E-08	1.41E-08	0.00E+00	3.74E-08	8.34E-10	2.91E-09	2.22E-09	5.96E-09	3.66E-11	2.22E-10	1.30E-10	3.89E-10
1541	577226.1	4193949	5.41E-09	1.82E-08	1.42E-08	0.00E+00	3.78E-08	8.43E-10	2.94E-09	2.24E-09	6.02E-09	3.70E-11	2.24E-10	1.32E-10	3.93E-10
1542	577235.2	4193948	5.46E-09	1.84E-08	1.43E-08	0.00E+00	3.82E-08	8.51E-10	2.96E-09	2.26E-09	6.08E-09	3.73E-11	2.26E-10	1.33E-10	3.96E-10
1543	577244.4	4193947	5.51E-09	1.85E-08	1.45E-08	0.00E+00	3.85E-08	8.58E-10	2.99E-09	2.28E-09	6.13E-09	3.77E-11	2.28E-10	1.34E-10	4.00E-10
1544	577253.5	4193947	5.55E-09	1.87E-08	1.46E-08	0.00E+00	3.88E-08	8.65E-10	3.01E-09	2.30E-09	6.18E-09	3.79E-11	2.30E-10	1.35E-10	4.03E-10
1545	577262.6	4193946	5.58E-09	1.88E-08	1.47E-08	0.00E+00	3.90E-08	8.70E-10	3.03E-09	2.31E-09	6.21E-09	3.82E-11	2.31E-10	1.36E-10	4.05E-10
1546	577271.8	4193945	5.61E-09	1.89E-08	1.47E-08	0.00E+00	3.92E-08	8.73E-10	3.04E-09	2.32E-09	6.24E-09	3.83E-11	2.32E-10	1.36E-10	4.07E-10
1547	577280.9	4193944	5.62E-09	1.89E-08	1.48E-08	0.00E+00	3.93E-08	8.76E-10	3.05E-09	2.33E-09	6.26E-09	3.84E-11	2.33E-10	1.37E-10	4.08E-10
1548	577208.3	4194260	8.09E-08	2.72E-07	2.12E-07	0.00E+00	5.65E-07	1.26E-08	4.39E-08	3.35E-08	9.00E-08	5.53E-10	3.35E-09	1.97E-09	5.87E-09
1549	577200.5	4194250	7.23E-08	2.43E-07	1.90E-07	0.00E+00	5.05E-07	1.13E-08	3.92E-08	3.00E-08	8.05E-08	4.94E-10	2.99E-09	1.76E-09	5.25E-09
1550	577190.8	4194247	6.03E-08	2.03E-07	1.58E-07	0.00E+00	4.21E-07	9.39E-09	3.27E-08	2.50E-08	6.71E-08	4.12E-10	2.50E-09	1.47E-09	4.38E-09
1551	577183.5	4194239	5.51E-08	1.85E-07	1.45E-07	0.00E+00	3.85E-07	8.58E-09	2.99E-08	2.28E-08	6.13E-08	3.76E-10	2.28E-09	1.34E-09	4.00E-09
1552	577179.1	4194253	4.68E-08	1.57E-07	1.23E-07	0.00E+00	3.27E-07	7.29E-09	2.54E-08	1.94E-08	5.21E-08	3.20E-10	1.94E-09	1.14E-09	3.40E-09
1553	577174.2	4194236	4.74E-08	1.60E-07	1.25E-07	0.00E+00	3.32E-07	7.39E-09	2.57E-08	1.97E-08	5.28E-08	3.24E-10	1.97E-09	1.15E-09	3.44E-09
1554	577169.3	4194251	4.01E-08	1.35E-07	1.05E-07	0.00E+00	2.81E-07	6.25E-09	2.18E-08	1.66E-08	4.47E-08	2.74E-10	1.66E-09	9.76E-10	2.91E-09

1555	577165	4194233	4.08E-08	1.37E-07	1.07E-07	0.00E+00	2.85E-07	6.36E-09	2.21E-08	1.69E-08	4.54E-08	2.79E-10	1.69E-09	9.93E-10	2.96E-09
1556	577159.6	4194249	3.42E-08	1.15E-07	8.98E-08	0.00E+00	2.39E-07	5.33E-09	1.86E-08	1.42E-08	3.81E-08	2.34E-10	1.42E-09	8.32E-10	2.48E-09
1557	577154.7	4194232	3.45E-08	1.16E-07	9.07E-08	0.00E+00	2.41E-07	5.38E-09	1.87E-08	1.43E-08	3.84E-08	2.36E-10	1.43E-09	8.40E-10	2.51E-09
1558	577149.9	4194247	2.91E-08	9.78E-08	7.63E-08	0.00E+00	2.03E-07	4.53E-09	1.58E-08	1.21E-08	3.24E-08	1.99E-10	1.20E-09	7.07E-10	2.11E-09
1559	577145.4	4194228	3.00E-08	1.01E-07	7.88E-08	0.00E+00	2.10E-07	4.67E-09	1.63E-08	1.24E-08	3.34E-08	2.05E-10	1.24E-09	7.30E-10	2.18E-09
1560	577151.9	4194213	3.33E-08	1.12E-07	8.76E-08	0.00E+00	2.33E-07	5.20E-09	1.81E-08	1.38E-08	3.71E-08	2.28E-10	1.38E-09	8.11E-10	2.42E-09
1561	577140.1	4194244	2.49E-08	8.38E-08	6.54E-08	0.00E+00	1.74E-07	3.88E-09	1.35E-08	1.03E-08	2.77E-08	1.70E-10	1.03E-09	6.06E-10	1.81E-09
1562	577135.3	4194227	2.57E-08	8.66E-08	6.76E-08	0.00E+00	1.80E-07	4.01E-09	1.40E-08	1.07E-08	2.86E-08	1.76E-10	1.07E-09	6.26E-10	1.87E-09
1563	577141.1	4194214	2.85E-08	9.59E-08	7.48E-08	0.00E+00	1.99E-07	4.44E-09	1.55E-08	1.18E-08	3.17E-08	1.95E-10	1.18E-09	6.93E-10	2.07E-09
1564	577130.4	4194242	2.15E-08	7.23E-08	5.64E-08	0.00E+00	1.50E-07	3.35E-09	1.17E-08	8.91E-09	2.39E-08	1.47E-10	8.90E-10	5.23E-10	1.56E-09
1565	577125.8	4194224	2.23E-08	7.50E-08	5.86E-08	0.00E+00	1.56E-07	3.47E-09	1.21E-08	9.24E-09	2.48E-08	1.52E-10	9.24E-10	5.42E-10	1.62E-09
1566	577132.2	4194209	2.50E-08	8.42E-08	6.57E-08	0.00E+00	1.75E-07	3.90E-09	1.36E-08	1.04E-08	2.78E-08	1.71E-10	1.04E-09	6.09E-10	1.82E-09
1567	577120.6	4194240	1.86E-08	6.27E-08	4.89E-08	0.00E+00	1.30E-07	2.90E-09	1.01E-08	7.72E-09	2.07E-08	1.27E-10	7.72E-10	4.53E-10	1.35E-09
1568	577116.4	4194221	1.94E-08	6.54E-08	5.10E-08	0.00E+00	1.36E-07	3.03E-09	1.05E-08	8.05E-09	2.16E-08	1.33E-10	8.04E-10	4.72E-10	1.41E-09
1569	577123.3	4194205	2.20E-08	7.41E-08	5.78E-08	0.00E+00	1.54E-07	3.43E-09	1.19E-08	9.13E-09	2.45E-08	1.51E-10	9.12E-10	5.35E-10	1.60E-09
1570	577110.9	4194238	1.62E-08	5.46E-08	4.26E-08	0.00E+00	1.13E-07	2.53E-09	8.80E-09	6.72E-09	1.80E-08	1.11E-10	6.71E-10	3.94E-10	1.18E-09
1571	577106.3	4194220	1.68E-08	5.65E-08	4.41E-08	0.00E+00	1.17E-07	2.62E-09	9.11E-09	6.96E-09	1.87E-08	1.15E-10	6.95E-10	4.08E-10	1.22E-09
1572	577112.6	4194205	1.90E-08	6.39E-08	4.98E-08	0.00E+00	1.33E-07	2.96E-09	1.03E-08	7.87E-09	2.11E-08	1.30E-10	7.86E-10	4.62E-10	1.38E-09
1573	577101.2	4194235	1.42E-08	4.78E-08	3.73E-08	0.00E+00	9.93E-08	2.21E-09	7.71E-09	5.89E-09	1.58E-08	9.72E-11	5.88E-10	3.46E-10	1.03E-09
1574	577096.8	4194217	1.48E-08	5.00E-08	3.90E-08	0.00E+00	1.04E-07	2.31E-09	8.06E-09	6.16E-09	1.65E-08	1.02E-10	6.15E-10	3.61E-10	1.08E-09
1575	577103.6	4194201	1.69E-08	5.68E-08	4.43E-08	0.00E+00	1.18E-07	2.63E-09	9.16E-09	7.00E-09	1.88E-08	1.15E-10	6.99E-10	4.11E-10	1.23E-09
1576	577110.3	4194186	1.82E-08	6.12E-08	4.78E-08	0.00E+00	1.27E-07	2.83E-09	9.87E-09	7.54E-09	2.02E-08	1.24E-10	7.53E-10	4.42E-10	1.32E-09
1577	577091.4	4194233	1.26E-08	4.23E-08	3.30E-08	0.00E+00	8.79E-08	1.96E-09	6.82E-09	5.21E-09	1.40E-08	8.59E-11	5.21E-10	3.06E-10	9.12E-10
1578	577086.8	4194215	1.31E-08	4.39E-08	3.43E-08	0.00E+00	9.13E-08	2.03E-09	7.08E-09	5.41E-09	1.45E-08	8.93E-11	5.41E-10	3.18E-10	9.48E-10
1579	577093	4194201	1.47E-08	4.96E-08	3.87E-08	0.00E+00	1.03E-07	2.30E-09	8.00E-09	6.11E-09	1.64E-08	1.01E-10	6.11E-10	3.59E-10	1.07E-09
1580	577099.2	4194187	1.60E-08	5.37E-08	4.19E-08	0.00E+00	1.12E-07	2.49E-09	8.66E-09	6.62E-09	1.78E-08	1.09E-10	6.61E-10	3.88E-10	1.16E-09
1581	577081.7	4194231	1.12E-08	3.76E-08	2.93E-08	0.00E+00	7.81E-08	1.74E-09	6.06E-09	4.63E-09	1.24E-08	7.64E-11	4.63E-10	2.72E-10	8.11E-10
1582	577077.3	4194212	1.17E-08	3.93E-08	3.06E-08	0.00E+00	8.16E-08	1.82E-09	6.33E-09	4.84E-09	1.30E-08	7.98E-11	4.83E-10	2.84E-10	8.47E-10
1583	577083.9	4194197	1.32E-08	4.46E-08	3.48E-08	0.00E+00	9.26E-08	2.06E-09	7.18E-09	5.49E-09	1.47E-08	9.05E-11	5.48E-10	3.22E-10	9.61E-10
1584	577090.5	4194182	1.44E-08	4.84E-08	3.77E-08	0.00E+00	1.00E-07	2.24E-09	7.80E-09	5.96E-09	1.60E-08	9.83E-11	5.95E-10	3.49E-10	1.04E-09
1585	577072	4194228	9.95E-09	3.35E-08	2.61E-08	0.00E+00	6.96E-08	1.55E-09	5.40E-09	4.13E-09	1.11E-08	6.81E-11	4.12E-10	2.42E-10	7.22E-10
1586	577067.3	4194211	1.03E-08	3.48E-08	2.71E-08	0.00E+00	7.22E-08	1.61E-09	5.61E-09	4.28E-09	1.15E-08	7.07E-11	4.28E-10	2.51E-10	7.50E-10
1587	577073.4	4194196	1.17E-08	3.93E-08	3.07E-08	0.00E+00	8.17E-08	1.82E-09	6.34E-09	4.84E-09	1.30E-08	7.99E-11	4.84E-10	2.84E-10	8.48E-10
1588	577079.6	4194182	1.27E-08	4.28E-08	3.34E-08	0.00E+00	8.89E-08	1.98E-09	6.90E-09	5.27E-09	1.42E-08	8.69E-11	5.27E-10	3.09E-10	9.23E-10
1589	577062.2	4194226	8.87E-09	2.99E-08	2.33E-08	0.00E+00	6.20E-08	1.38E-09	4.81E-09	3.68E-09	9.87E-09	6.07E-11	3.67E-10	2.16E-10	6.44E-10
1590	577057.7	4194208	9.26E-09	3.12E-08	2.43E-08	0.00E+00	6.48E-08	1.44E-09	5.03E-09	3.84E-09	1.03E-08	6.33E-11	3.84E-10	2.25E-10	6.72E-10
1591	577064.2	4194193	1.05E-08	3.54E-08	2.76E-08	0.00E+00	7.35E-08	1.64E-09	5.70E-09	4.36E-09	1.17E-08	7.19E-11	4.35E-10	2.56E-10	7.63E-10
1592	577070.8	4194178	1.15E-08	3.88E-08	3.03E-08	0.00E+00	8.06E-08	1.80E-09	6.25E-09	4.78E-09	1.28E-08	7.88E-11	4.77E-10	2.80E-10	8.37E-10
1593	577077.3	4194163	1.21E-08	4.08E-08	3.18E-08	0.00E+00	8.47E-08	1.89E-09	6.57E-09	5.02E-09	1.35E-08	8.28E-11	5.02E-10	2.95E-10	8.79E-10
1594	577052.5	4194224	7.95E-09	2.68E-08	2.09E-08	0.00E+00	5.56E-08	1.24E-09	4.31E-09	3.30E-09	8.85E-09	5.44E-11	3.29E-10	1.93E-10	5.77E-10
1595	577048.2	4194205	8.33E-09	2.80E-08	2.19E-08	0.00E+00	5.83E-08	1.30E-09	4.52E-09	3.46E-09	9.28E-09	5.70E-11	3.45E-10	2.03E-10	6.05E-10
1596	577055.1	4194189	9.50E-09	3.20E-08	2.50E-08	0.00E+00	6.65E-08	1.48E-09	5.16E-09	3.94E-09	1.06E-08	6.50E-11	3.94E-10	2.31E-10	6.90E-10
1597	577061.9	4194174	1.05E-08	3.52E-08	2.75E-08	0.00E+00	7.31E-08	1.63E-09	5.68E-09	4.34E-09	1.16E-08	7.15E-11	4.33E-10	2.54E-10	7.59E-10
1598	577068.8	4194158	1.10E-08	3.72E-08	2.90E-08	0.00E+00	7.72E-08	1.72E-09	5.99E-09	4.58E-09	1.23E-08	7.55E-11	4.57E-10	2.69E-10	8.01E-10
1599	577042.7	4194222	7.15E-09	2.41E-08	1.88E-08	0.00E+00	5.00E-08	1.11E-09	3.88E-09	2.97E-09	7.96E-09	4.89E-11	2.96E-10	1.74E-10	5.19E-10
1600	577038.2	4194203	7.47E-09	2.52E-08	1.96E-08	0.00E+00	5.22E-08	1.16E-09	4.06E-09	3.10E-09	8.32E-09	5.11E-11	3.10E-10	1.82E-10	5.42E-10
1601	577044.7	4194189	8.45E-09	2.85E-08	2.22E-08	0.00E+00	5.91E-08	1.32E-09	4.59E-09	3.51E-09	9.41E-09	5.78E-11	3.50E-10	2.06E-10	6.14E-10
1602	577051.1	4194174	9.31E-09	3.13E-08	2.44E-08	0.00E+00	6.51E-08	1.45E-09	5.05E-09	3.86E-09	1.04E-08	6.37E-11	3.86E-10	2.26E-10	6.76E-10
1603	577057.5	4194159	9.93E-09	3.34E-08	2.61E-08	0.00E+00	6.94E-08	1.55E-09	5.39E-09	4.12E-09	1.11E-08	6.79E-11	4.11E-10	2.42E-10	7.21E-10
1604	577033	4194219	6.44E-09	2.17E-08	1.69E-08	0.00E+00	4.51E-08	1.00E-09	3.50E-09	2.67E-09	7.17E-09	4.41E-11	2.67E-10	1.57E-10	4.68E-10
1605	577028.6	4194201	6.79E-09	2.29E-08	1.78E-08	0.00E+00	4.75E-08	1.06E-09	3.69E-09	2.82E-09	7.56E-09	4.65E-11	2.81E-10	1.65E-10	4.93E-10
1606	577035.4	4194185	7.73E-09	2.60E-08	2.03E-08	0.00E+00	5.40E-08	1.20E-09	4.19E-09	3.20E-09	8.60E-09	5.29E-11	3.20E-10	1.88E-10	5.61E-10
1607	577042.2	4194170	8.51E-09	2.86E-08	2.23E-08	0.00E+00	5.95E-08	1.33E-09	4.62E-09	3.53E-09	9.47E-09	5.82E-11	3.53E-10	2.07E-10	6.18E-10
1608	577048.9	4194154	9.10E-09	3.06E-08	2.39E-08	0.00E+00	6.36E-08	1.42E-09	4.94E-09	3.77E-09	1.01E-08	6.22E-11	3.77E-10	2.21E-10	6.60E-10
1609	577023.3	4194217	5.83E-09	1.96E-08	1.53E-08	0.00E+00	4.08E-08	9.09E-10	3.17E-09	2.42E-09	6.49E-09	3.99E-11	2.42E-10	1.42E-10	4.24E-10
1610	577018.7	4194199	6.15E-09	2.07E-08	1.62E-08	0.00E+00	4.30E-08	9.59E-10	3.34E-09	2.55E-09	6.85E-09	4.21E-11	2.55E-10	1.50E-10	4.47E-10
1611	577025.1	4194184	6.97E-09	2.34E-08	1.83E-08	0.00E+00	4.87E-08	1.09E-09	3.78E-09	2.89E-09	7.75E-09	4.76E-11	2.89E-10	1.69E-10	5.06E-10
1612	577031.5	4194170	7.66E-09	2.58E-08	2.01E-08	0.00E+00	5.36E-08	1.19E-09	4.16E-09	3.18E-09	8.53E-09	5.24E-11	3.17E-10	1.86E-10	5.56E-10
1613	577037.8	4194155	8.20E-09	2.76E-08	2.15E-08	0.00E+00	5.73E-08	1.28E-09	4.45E-09	3.40E-09	9.13E-09	5.61E-11	3.40E-10	2.00E-10	5.95E-10
1614	577013.5	4194215	5.31E-09	1.79E-08	1.39E-08	0.00E+00	3.71E-08	8.27E-10	2.88E-09	2.20E-09	5.91E-09	3.63E-11	2.20E-10	1.29E-10	3.85E-10
1615	577009.1	4194196	5.64E-09	1.90E-08	1.48E-08	0.00E+00	3.94E-08	8.79E-10	3.06E-09	2.34E-09	6.28E-09	3.86E-11	2.34E-10	1.37E-10	4.09E-10
1616	577015.8	4194181	6.41E-09	2.16E-08	1.68E-08	0.00E+00	4.48E-08	9.99E-10	3.48E-09	2.66E-09	7.13E-09	4.38E-11	2.65E-10	1.56E-10	4.65E-10
1617	577022.4	4194166	7.07E-09	2.38E-08	1.86E-08	0.00E+00	4.94E-08	1.10E-09	3.84E-09	2.93E-09	7.87E-09	4.84E-11	2.93E-10	1.72E-10	5.13E-10
1618	577029.1	4194151	7.57E-09	2.55E-08	1.99E-08	0.00E+00	5.29E-08	1.18E-09	4.11E-09	3.14E-09	8.42E-09	5.17E-11	3.13E-10	1.84E-10	5.49E-10
1619	577035.8	4194135	7.91E-09	2.66E-08	2.08E-08	0.00E+00	5.53E-08	1.23E-09	4.29E-09	3.28E-09	8.81E-09	5.41E-11	3.28E-10	1.93E-10	5.74E-10
1620	577003.8	4194212	4.85E-09	1.63E-08	1.27E-08	0.00E+00	3.39E-08	7.55E-10	2.63E-09	2.01E-09	5.40E-09	3.32E-11	2.01E-10	1.18E-10	3.52E-10
1621	576999.5	4194194	5.19E-09	1.75E-08	1.36E-08	0.00E+00	3.63E-08	8.08E-10	2.81E-09	2.15E-09	5.77E-09	3.55E-11	2.15E-10	1.26E-10	3.76E-10
1622	577006.5	4194178	5.91E-09	1.99E-08	1.55E-08	0.00E+00	4.13E-08	9.21E-10	3.21E-09	2.45E-09	6.58E-09	4.04E-11	2.45E-10	1.44E-10	4.29E-10
1623	577013.4	4194162	6.53E-09	2.20E-08	1.71E-08	0.00E+00	4.57E-08	1.02E-09	3.54E-09	2.71E-09	7.27E-09	4.47E-11	2.71E-10	1.59E-10	4.74E-10
1624	577020.4	4194146	6.99E-09	2.35E-08	1.84E-08	0.00E+00	4.89E-08	1.09E-09	3.79E-09	2.90E-09	7.78E-09	4.78E-11	2.89E-10	1.70E-10	5.07E-10
1625	576994.1	4194210	4.45E-09	1.50E-08	1.17E-08	0.00E+00	3.11E-08	6.93E-10	2.41E-09	1.84E-09	4.95E-09	3.04E-11	1.84E-10	1.08E-10	3.23E-10
1626	576989.6	4194192	4.75E-09	1.60E-08	1.25E-08	0.00E+00	3.32E-08	7.40E-10	2.58E-09	1.97E-09	5.29E-09	3.25E-11	1.97E-10	1.16E-10	3.45E-10
1627	576996.2	4194177	5.38E-09	1.81E-08	1.41E-08	0.00E+00	3.76E-08	8.39E-10	2.92E-09	2.23E-09	5.99E-09	3.68E-11	2.23E-10	1.31E-10	3.91E-10
1628	577002.8	4194162	5.93E-09	2.00E-08	1.56E-08	0.00E+00	4.15E-08	9.24E-10	3.22E-09	2.46E-09	6.60E-09	4.06E-11	2.46E-10	1.44E-10	4.31E-10
1629	577009.4	4194147	6.35E-09	2.14E-08	1.67E-08	0.00E+00	4.44E-08	9.90E-10	3.45E-09	2.63E-09	7.07E-09	4.34E-11	2.63E-10	1.54E-10	4.61E-10
1630	577015.9	4194132	6.67E-09	2.25E-08	1.75E-08	0.00E+00	4.66E-08	1.04E-09	3.62E-09	2.77E-09	7.43E-09	4.56E-11	2.76E-10	1.62E-10	4.84E-10
1631	576984.3	4194208	4.09E-09	1.38E-08	1.08E-08	0.00E+00	2.86E-08	6.38E-10	2.22E-09	1.70E-09	4.56E-09	2.80E-11	1.70E-10	9.96E-11	2.97E-10
1632	576980	4194189	4.39E-09	1.48E-08	1.15E-08	0.00E+00	3.07E-08	6.84E-10	2.38E-09	1.82E-09	4.89E-09	3.00E-11	1.82E-10	1.07E-10	3.19E-10
1633	576986.8	4194174	4.99E-09	1.68E-08	1.31E-08	0.00E+00	3.49E-08	7.78E-10	2.71E-09	2.07E-09	5.56E-09	3.41E-11	2.07E-10	1.21E-10	3.62E-10
1634	576993.7	4194158	5.51E-09	1.85E-08	1.45E-08	0.00E+00	3.85E-08	8.58E-10	2.99E-09	2.28E-09	6.13E-09	3.77E-11	2.28E-10	1.34E-10	4.00E-10
1635	577000.5	4194142	5.90E-09	1.99E-08	1.55E-08	0.00E+00	4.13E-08	9.20E-10	3.20E-09	2.45E-09	6.57E-09	4.04E-11	2.45E-10	1.44E-10	4.29E-10
1636	577007.4	4194127	6.21E-09	2.09E-08	1.63E-08	0.00E+00	4.34E-08	9.67E-10	3.37E-09	2.57E-09	6.91E-09	4.25E-11	2.57E-10	1.51E-10	4.51E-10

1637	576974.6	4194206	3.79E-09	1.27E-08	9.94E-09	0.00E+00	2.65E-08	5.90E-10	2.06E-09	1.57E-09	4.22E-09	2.59E-11	1.57E-10	9.21E-11	2.75E-10
1638	576970.1	4194187	4.04E-09	1.36E-08	1.06E-08	0.00E+00	2.82E-08	6.29E-10	2.19E-09	1.68E-09	4.50E-09	2.76E-11	1.67E-10	9.83E-11	2.93E-10
1639	576976.6	4194172	4.56E-09	1.53E-08	1.20E-08	0.00E+00	3.19E-08	7.11E-10	2.47E-09	1.89E-09	5.08E-09	3.12E-11	1.89E-10	1.11E-10	3.31E-10
1640	576983.1	4194158	5.03E-09	1.69E-08	1.32E-08	0.00E+00	3.52E-08	7.84E-10	2.73E-09	2.09E-09	5.60E-09	3.44E-11	2.08E-10	1.22E-10	3.65E-10
1641	576989.7	4194143	5.40E-09	1.82E-08	1.42E-08	0.00E+00	3.78E-08	8.41E-10	2.93E-09	2.24E-09	6.01E-09	3.69E-11	2.24E-10	1.31E-10	3.92E-10
1642	576996.2	4194128	5.69E-09	1.92E-08	1.49E-08	0.00E+00	3.98E-08	8.87E-10	3.09E-09	2.36E-09	6.33E-09	3.89E-11	2.36E-10	1.38E-10	4.13E-10
1643	576964.9	4194203	3.51E-09	1.18E-08	9.22E-09	0.00E+00	2.46E-08	5.47E-10	1.91E-09	1.46E-09	3.91E-09	2.40E-11	1.46E-10	8.54E-11	2.55E-10
1644	576960.5	4194185	3.75E-09	1.26E-08	9.84E-09	0.00E+00	2.62E-08	5.84E-10	2.03E-09	1.55E-09	4.17E-09	2.56E-11	1.55E-10	9.11E-11	2.72E-10
1645	576967.2	4194169	4.23E-09	1.42E-08	1.11E-08	0.00E+00	2.96E-08	6.59E-10	2.30E-09	1.75E-09	4.71E-09	2.89E-11	1.75E-10	1.03E-10	3.07E-10
1646	576974	4194154	4.68E-09	1.57E-08	1.23E-08	0.00E+00	3.27E-08	7.29E-10	2.54E-09	1.94E-09	5.21E-09	3.20E-11	1.94E-10	1.14E-10	3.40E-10
1647	576980.8	4194138	5.04E-09	1.70E-08	1.32E-08	0.00E+00	3.52E-08	7.85E-10	2.74E-09	2.09E-09	5.61E-09	3.45E-11	2.09E-10	1.23E-10	3.66E-10
1648	576987.5	4194123	5.31E-09	1.79E-08	1.40E-08	0.00E+00	3.71E-08	8.28E-10	2.88E-09	2.20E-09	5.91E-09	3.63E-11	2.20E-10	1.29E-10	3.86E-10
1649	576955.1	4194201	3.27E-09	1.10E-08	8.58E-09	0.00E+00	2.28E-08	5.09E-10	1.77E-09	1.35E-09	3.64E-09	2.23E-11	1.35E-10	7.94E-11	2.37E-10
1650	576950.6	4194183	3.46E-09	1.17E-08	9.09E-09	0.00E+00	2.42E-08	5.39E-10	1.88E-09	1.44E-09	3.85E-09	2.37E-11	1.43E-10	8.42E-11	2.51E-10
1651	576957.1	4194168	3.88E-09	1.31E-08	1.02E-08	0.00E+00	2.71E-08	6.05E-10	2.11E-09	1.61E-09	4.32E-09	2.66E-11	1.61E-10	9.44E-11	2.82E-10
1652	576963.5	4194153	4.29E-09	1.44E-08	1.13E-08	0.00E+00	3.00E-08	6.68E-10	2.33E-09	1.78E-09	4.77E-09	2.93E-11	1.78E-10	1.04E-10	3.11E-10
1653	576970	4194139	4.63E-09	1.56E-08	1.22E-08	0.00E+00	3.24E-08	7.21E-10	2.51E-09	1.92E-09	5.15E-09	3.17E-11	1.92E-10	1.13E-10	3.36E-10
1654	576976.4	4194124	4.89E-09	1.65E-08	1.28E-08	0.00E+00	3.42E-08	7.62E-10	2.65E-09	2.03E-09	5.44E-09	3.34E-11	2.03E-10	1.19E-10	3.55E-10
1655	576945.4	4194199	3.03E-09	1.02E-08	7.97E-09	0.00E+00	2.12E-08	4.73E-10	1.65E-09	1.26E-09	3.38E-09	2.07E-11	1.26E-10	7.38E-11	2.20E-10
1656	576941	4194180	3.22E-09	1.08E-08	8.46E-09	0.00E+00	2.25E-08	5.02E-10	1.75E-09	1.34E-09	3.59E-09	2.20E-11	1.33E-10	7.84E-11	2.34E-10
1657	576947.7	4194165	3.62E-09	1.22E-08	9.52E-09	0.00E+00	2.53E-08	5.65E-10	1.97E-09	1.50E-09	4.03E-09	2.48E-11	1.50E-10	8.82E-11	2.63E-10
1658	576954.3	4194150	4.01E-09	1.35E-08	1.05E-08	0.00E+00	2.80E-08	6.25E-10	2.18E-09	1.66E-09	4.46E-09	2.74E-11	1.66E-10	9.75E-11	2.91E-10
1659	576961	4194134	4.34E-09	1.46E-08	1.14E-08	0.00E+00	3.03E-08	6.76E-10	2.35E-09	1.80E-09	4.83E-09	2.97E-11	1.80E-10	1.06E-10	3.15E-10
1660	576935.6	4194196	2.82E-09	9.50E-09	7.41E-09	0.00E+00	1.97E-08	4.40E-10	1.53E-09	1.17E-09	3.14E-09	1.93E-11	1.17E-10	6.87E-11	2.05E-10
1661	576931.4	4194178	3.01E-09	1.01E-08	7.90E-09	0.00E+00	2.10E-08	4.69E-10	1.63E-09	1.25E-09	3.35E-09	2.06E-11	1.25E-10	7.32E-11	2.18E-10
1662	576938.3	4194162	3.39E-09	1.14E-08	8.91E-09	0.00E+00	2.37E-08	5.29E-10	1.84E-09	1.41E-09	3.78E-09	2.32E-11	1.41E-10	8.26E-11	2.46E-10
1663	576945.2	4194146	3.75E-09	1.26E-08	9.86E-09	0.00E+00	2.62E-08	5.85E-10	2.04E-09	1.56E-09	4.18E-09	2.57E-11	1.56E-10	9.13E-11	2.73E-10
1664	576952.1	4194130	4.07E-09	1.37E-08	1.07E-08	0.00E+00	2.85E-08	6.34E-10	2.21E-09	1.69E-09	4.53E-09	2.78E-11	1.69E-10	9.90E-11	2.96E-10
1665	576925.9	4194194	2.63E-09	8.85E-09	6.90E-09	0.00E+00	1.84E-08	4.10E-10	1.43E-09	1.09E-09	2.93E-09	1.80E-11	1.09E-10	6.40E-11	1.91E-10
1666	576921.5	4194176	2.80E-09	9.42E-09	7.35E-09	0.00E+00	1.96E-08	4.36E-10	1.52E-09	1.16E-09	3.12E-09	1.91E-11	1.16E-10	6.81E-11	2.03E-10
1667	576928.1	4194161	3.14E-09	1.06E-08	8.26E-09	0.00E+00	2.20E-08	4.90E-10	1.71E-09	1.30E-09	3.50E-09	2.15E-11	1.30E-10	7.65E-11	2.28E-10
1668	576934.7	4194146	3.46E-09	1.17E-08	9.09E-09	0.00E+00	2.42E-08	5.39E-10	1.88E-09	1.44E-09	3.85E-09	2.37E-11	1.43E-10	8.42E-11	2.51E-10
1669	576941.3	4194130	3.75E-09	1.26E-08	9.85E-09	0.00E+00	2.62E-08	5.84E-10	2.03E-09	1.55E-09	4.17E-09	2.56E-11	1.55E-10	9.12E-11	2.72E-10
1670	576961.2	4194085	4.29E-09	1.44E-08	1.13E-08	0.00E+00	3.00E-08	6.69E-10	2.33E-09	1.78E-09	4.78E-09	2.94E-11	1.78E-10	1.04E-10	3.12E-10
1671	576916.2	4194192	2.46E-09	8.26E-09	6.45E-09	0.00E+00	1.72E-08	3.83E-10	1.33E-09	1.02E-09	2.73E-09	1.68E-11	1.02E-10	5.97E-11	1.78E-10
1672	577225.4	4194275	1.22E-07	4.11E-07	3.21E-07	0.00E+00	8.54E-07	1.90E-08	6.63E-08	5.06E-08	1.36E-07	8.35E-10	5.06E-09	2.97E-09	8.87E-09
1673	577234.3	4194277	1.65E-07	5.56E-07	4.34E-07	0.00E+00	1.16E-06	2.58E-08	8.97E-08	6.86E-08	1.84E-07	1.13E-09	6.85E-09	4.02E-09	1.20E-08
1674	577216.9	4194280	9.01E-08	3.03E-07	2.37E-07	0.00E+00	6.30E-07	1.40E-08	4.89E-08	3.74E-08	1.00E-07	6.16E-10	3.73E-09	2.19E-09	6.54E-09
1675	577232	4194286	1.48E-07	4.98E-07	3.89E-07	0.00E+00	1.04E-06	2.31E-08	8.03E-08	6.14E-08	1.65E-07	1.01E-09	6.13E-09	3.60E-09	1.07E-08
1676	577214.6	4194290	7.81E-08	2.63E-07	2.05E-07	0.00E+00	5.46E-07	1.22E-08	4.24E-08	3.24E-08	8.69E-08	5.34E-10	3.23E-09	1.90E-09	5.67E-09
1677	577201	4194273	5.96E-08	2.01E-07	1.56E-07	0.00E+00	4.17E-07	9.28E-09	3.23E-08	2.47E-08	6.63E-08	4.07E-10	2.47E-09	1.45E-09	4.33E-09
1678	577229.7	4194296	1.20E-07	4.05E-07	3.16E-07	0.00E+00	8.41E-07	1.87E-08	6.53E-08	4.99E-08	1.34E-07	8.22E-10	4.98E-09	2.93E-09	8.73E-09
1679	577212.3	4194299	5.66E-08	1.91E-07	1.49E-07	0.00E+00	3.96E-07	8.82E-09	3.07E-08	2.35E-08	6.30E-08	3.87E-10	2.34E-09	1.38E-09	4.11E-09
1680	577199.9	4194290	4.51E-08	1.52E-07	1.18E-07	0.00E+00	3.15E-07	7.03E-09	2.45E-08	1.87E-08	5.02E-08	3.08E-10	1.87E-09	1.10E-09	3.27E-09
1681	577192.5	4194278	4.39E-08	1.48E-07	1.15E-07	0.00E+00	3.07E-07	6.84E-09	2.38E-08	1.82E-08	4.88E-08	3.00E-10	1.82E-09	1.07E-09	3.19E-09
1682	577190	4194263	5.14E-08	1.73E-07	1.35E-07	0.00E+00	3.59E-07	8.01E-09	2.79E-08	2.13E-08	5.72E-08	3.51E-10	2.13E-09	1.25E-09	3.73E-09
1683	577209.9	4194309	3.16E-08	1.06E-07	8.30E-08	0.00E+00	2.21E-07	4.93E-09	1.72E-08	1.31E-08	3.52E-08	2.16E-10	1.31E-09	7.69E-10	2.30E-09
1684	577197.6	4194300	3.11E-08	1.05E-07	8.17E-08	0.00E+00	2.17E-07	4.85E-09	1.69E-08	1.29E-08	3.46E-08	2.13E-10	1.29E-09	7.57E-10	2.26E-09
1685	577184	4194284	3.18E-08	1.07E-07	8.35E-08	0.00E+00	2.22E-07	4.96E-09	1.73E-08	1.32E-08	3.54E-08	2.18E-10	1.32E-09	7.74E-10	2.31E-09
1686	577181.5	4194269	4.02E-08	1.35E-07	1.06E-07	0.00E+00	2.81E-07	6.27E-09	2.18E-08	1.67E-08	4.48E-08	2.75E-10	1.67E-09	9.78E-10	2.92E-09
1687	577195.3	4194310	1.93E-08	6.48E-08	5.06E-08	0.00E+00	1.35E-07	3.00E-09	1.04E-08	7.98E-09	2.14E-08	1.32E-10	7.98E-10	4.68E-10	1.40E-09
1688	577182.9	4194301	1.87E-08	6.29E-08	4.91E-08	0.00E+00	1.31E-07	2.91E-09	1.01E-08	7.75E-09	2.08E-08	1.28E-10	7.74E-10	4.55E-10	1.36E-09
1689	577175.5	4194289	2.25E-08	7.57E-08	5.91E-08	0.00E+00	1.57E-07	3.50E-09	1.22E-08	9.32E-09	2.50E-08	1.54E-10	9.32E-10	5.47E-10	1.63E-09
1690	577173	4194274	3.06E-08	1.03E-07	8.04E-08	0.00E+00	2.14E-07	4.77E-09	1.66E-08	1.27E-08	3.41E-08	2.09E-10	1.27E-09	7.45E-10	2.22E-09
1691	577166.8	4194293	1.64E-08	5.54E-08	4.32E-08	0.00E+00	1.15E-07	2.56E-09	8.93E-09	6.82E-09	1.83E-08	1.12E-10	6.81E-10	4.00E-10	1.19E-09
1692	577163.9	4194275	2.47E-08	8.31E-08	6.48E-08	0.00E+00	1.73E-07	3.85E-09	1.34E-08	1.02E-08	2.75E-08	1.69E-10	1.02E-09	6.00E-10	1.79E-09
1693	577158.3	4194298	1.19E-08	4.01E-08	3.12E-08	0.00E+00	8.32E-08	1.85E-09	6.46E-09	4.93E-09	1.32E-08	8.14E-11	4.93E-10	2.89E-10	8.64E-10
1694	577155.5	4194281	1.82E-08	6.13E-08	4.78E-08	0.00E+00	1.27E-07	2.84E-09	9.88E-09	7.55E-09	2.03E-08	1.25E-10	7.54E-10	4.43E-10	1.32E-09
1695	577152.7	4194264	2.46E-08	8.30E-08	6.47E-08	0.00E+00	1.72E-07	3.84E-09	1.34E-08	1.02E-08	2.74E-08	1.69E-10	1.02E-09	6.00E-10	1.79E-09
1696	577147	4194287	1.36E-08	4.57E-08	3.56E-08	0.00E+00	9.48E-08	2.11E-09	7.36E-09	5.62E-09	1.51E-08	9.28E-11	5.62E-10	3.30E-10	9.85E-10
1697	577144.3	4194270	1.88E-08	6.34E-08	4.95E-08	0.00E+00	1.32E-07	2.93E-09	1.02E-08	7.81E-09	2.10E-08	1.29E-10	7.80E-10	4.58E-10	1.37E-09
1698	577138.6	4194292	1.02E-08	3.42E-08	2.67E-08	0.00E+00	7.11E-08	1.58E-09	5.52E-09	4.22E-09	1.13E-08	6.96E-11	4.21E-10	2.47E-10	7.38E-10
1699	577135.8	4194276	1.44E-08	4.85E-08	3.79E-08	0.00E+00	1.01E-07	2.25E-09	7.82E-09	5.98E-09	1.60E-08	9.86E-11	5.97E-10	3.51E-10	1.05E-09
1700	577133.1	4194259	1.85E-08	6.22E-08	4.85E-08	0.00E+00	1.29E-07	2.88E-09	1.00E-08	7.66E-09	2.06E-08	1.26E-10	7.65E-10	4.49E-10	1.34E-09
1701	577127.4	4194281	1.11E-08	3.75E-08	2.93E-08	0.00E+00	7.79E-08	1.74E-09	6.05E-09	4.62E-09	1.24E-08	7.62E-11	4.62E-10	2.71E-10	8.09E-10
1702	577124.7	4194265	1.46E-08	4.92E-08	3.84E-08	0.00E+00	1.02E-07	2.28E-09	7.93E-09	6.06E-09	1.63E-08	9.99E-11	6.05E-10	3.55E-10	1.06E-09
1703	577118.9	4194287	8.73E-09	2.94E-08	2.29E-08	0.00E+00	6.10E-08	1.36E-09	4.74E-09	3.62E-09	9.72E-09	5.97E-11	3.62E-10	2.12E-10	6.34E-10
1704	577116.3	4194270	1.15E-08	3.89E-08	3.03E-08	0.00E+00	8.07E-08	1.80E-09	6.27E-09	4.79E-09	1.29E-08	7.90E-11	4.78E-10	2.81E-10	8.38E-10
1705	577113.6	4194254	1.43E-08	4.82E-08	3.76E-08	0.00E+00	1.00E-07	2.23E-09	7.76E-09	5.93E-09	1.59E-08	9.79E-11	5.93E-10	3.48E-10	1.04E-09
1706	577108.4	4194280	8.64E-09	2.91E-08	2.27E-08	0.00E+00	6.04E-08	1.35E-09	4.69E-09	3.58E-09	9.62E-09	5.91E-11	3.58E-10	2.10E-10	6.27E-10
1707	577107	4194271	9.94E-09	3.35E-08	2.61E-08	0.00E+00	6.95E-08	1.55E-09	5.39E-09	4.12E-09	1.11E-08	6.80E-11	4.12E-10	2.42E-10	7.22E-10
1708	577104.1	4194253	1.25E-08	4.20E-08	3.28E-08	0.00E+00	8.73E-08	1.95E-09	6.78E-09	5.18E-09	1.39E-08	8.54E-11	5.17E-10	3.04E-10	9.07E-10
1709	577098.6	4194277	7.98E-09	2.69E-08	2.10E-08	0.00E+00	5.58E-08	1.24E-09	4.33E-09	3.31E-09	8.88E-09	5.46E-11	3.31E-10	1.94E-10	5.79E-10
1710	577097.2	4194268	9.09E-09	3.06E-08	2.39E-08	0.00E+00	6.36E-08	1.42E-09	4.93E-09	3.77E-09	1.01E-08	6.22E-11	3.77E-10	2.21E-10	6.60E-10
1711	577094.3	4194251	1.12E-08	3.76E-08	2.93E-08	0.00E+00	7.81E-08	1.74E-09	6.06E-09	4.63E-09	1.24E-08	7.63E-11	4.62E-10	2.72E-10	8.10E-10
1712	577087.4	4194265	8.36E-09	2.81E-08	2.20E-08	0.00E+00	5.84E-08	1.30E-09	4.54E-09	3.47E-09	9.30E-09	5.72E-11	3.46E-10	2.03E-10	6.07E-10
1713	577084.5	4194248	1.00E-08	3.37E-08	2.63E-08	0.00E+00	7.00E-08	1.56E-09	5.43E-09	4.15E-09	1.11E-08	6.85E-11	4.15E-10	2.44E-10	7.27E-10
1714	577077.6	4194263	7.67E-09	2.58E-08	2.01E-08	0.00E+00	5.36E-08	1.19E-09	4.16E-09	3.18E-09	8.53E-09	5.24E-11	3.18E-10	1.87E-10	5.57E-10
1715	577074.8	4194246	9.02E-09	3.03E-08	2.37E-08	0.00E+00	6.30E-08	1.40E-09	4.89E-09	3.74E-09	1.00E-08	6.17E-11	3.73E-10	2.19E-10	6.54E-10
1716	577067.8	4194260	6.98E-09	2.35E-08	1.83E-08	0.00E+00	4.88E-08	1.09E-09	3.79E-09	2.89E-09	7.77E-09	4.77E-11	2.89E-10	1.70E-10	5.07E-10
1717	577065	4194243	8.06E-09	2.71E-08	2.12E-08	0.00E+00	5.63E-08	1.26E-09	4.37E-09	3.34E-09	8.97E-09	5.51E-11	3.34E-10	1.96E-10	5.85E-10
1718	577059.4	4194266	5.80E-09	1.95E-08	1.52E-08	0.00E+00	4.06E-08	9.04E-10	3.15E-09	2.41E-09	6.46E-09	3.97E-11	2.40E-10	1.41E-10	4.21E-10

1719	577056.6	4194249	6.79E-09	2.29E-08	1.78E-08	0.00E+00	4.75E-08	1.06E-09	3.69E-09	2.82E-09	7.56E-09	4.65E-11	2.81E-10	1.65E-10	4.93E-10
1720	577050	4194266	5.18E-09	1.74E-08	1.36E-08	0.00E+00	3.62E-08	8.07E-10	2.81E-09	2.15E-09	5.77E-09	3.54E-11	2.15E-10	1.26E-10	3.76E-10
1721	577048.6	4194257	5.63E-09	1.90E-08	1.48E-08	0.00E+00	3.94E-08	8.78E-10	3.06E-09	2.34E-09	6.27E-09	3.85E-11	2.33E-10	1.37E-10	4.09E-10
1722	577045.7	4194239	6.47E-09	2.18E-08	1.70E-08	0.00E+00	4.52E-08	1.01E-09	3.51E-09	2.68E-09	7.20E-09	4.42E-11	2.68E-10	1.57E-10	4.70E-10
1723	577044.2	4194231	6.84E-09	2.30E-08	1.80E-08	0.00E+00	4.78E-08	1.07E-09	3.71E-09	2.83E-09	7.61E-09	4.68E-11	2.83E-10	1.66E-10	4.96E-10
1724	577040.2	4194264	4.73E-09	1.59E-08	1.24E-08	0.00E+00	3.31E-08	7.37E-10	2.57E-09	1.96E-09	5.27E-09	3.24E-11	1.96E-10	1.15E-10	3.44E-10
1725	577037.3	4194246	5.48E-09	1.84E-08	1.44E-08	0.00E+00	3.83E-08	8.53E-10	2.97E-09	2.27E-09	6.09E-09	3.74E-11	2.27E-10	1.33E-10	3.97E-10
1726	577035.9	4194237	5.83E-09	1.96E-08	1.53E-08	0.00E+00	4.08E-08	9.08E-10	3.16E-09	2.42E-09	6.49E-09	3.99E-11	2.41E-10	1.42E-10	4.23E-10
1727	577030.4	4194261	4.29E-09	1.44E-08	1.13E-08	0.00E+00	3.00E-08	6.68E-10	2.33E-09	1.78E-09	4.78E-09	2.93E-11	1.78E-10	1.04E-10	3.11E-10
1728	577027.6	4194243	4.95E-09	1.67E-08	1.30E-08	0.00E+00	3.46E-08	7.72E-10	2.69E-09	2.05E-09	5.51E-09	3.39E-11	2.05E-10	1.20E-10	3.60E-10
1729	577026.1	4194235	5.27E-09	1.77E-08	1.38E-08	0.00E+00	3.69E-08	8.21E-10	2.86E-09	2.19E-09	5.87E-09	3.61E-11	2.18E-10	1.28E-10	3.83E-10
1730	577017.8	4194241	4.50E-09	1.52E-08	1.18E-08	0.00E+00	3.15E-08	7.02E-10	2.44E-09	1.87E-09	5.01E-09	3.08E-11	1.87E-10	1.10E-10	3.27E-10
1731	577009.5	4194247	3.85E-09	1.29E-08	1.01E-08	0.00E+00	2.69E-08	5.99E-10	2.09E-09	1.59E-09	4.28E-09	2.63E-11	1.59E-10	9.35E-11	2.79E-10
1732	577006.6	4194230	4.37E-09	1.47E-08	1.15E-08	0.00E+00	3.06E-08	6.82E-10	2.37E-09	1.81E-09	4.87E-09	2.99E-11	1.81E-10	1.06E-10	3.18E-10
1733	576999.7	4194245	3.53E-09	1.19E-08	9.27E-09	0.00E+00	2.47E-08	5.50E-10	1.92E-09	1.46E-09	3.93E-09	2.41E-11	1.46E-10	8.59E-11	2.56E-10
1734	576996.9	4194227	4.01E-09	1.35E-08	1.05E-08	0.00E+00	2.80E-08	6.25E-10	2.18E-09	1.66E-09	4.46E-09	2.74E-11	1.66E-10	9.76E-11	2.91E-10
1735	576990.2	4194244	3.21E-09	1.08E-08	8.43E-09	0.00E+00	2.24E-08	5.00E-10	1.74E-09	1.33E-09	3.57E-09	2.20E-11	1.33E-10	7.81E-11	2.33E-10
1736	576988.7	4194235	3.44E-09	1.16E-08	9.04E-09	0.00E+00	2.41E-08	5.36E-10	1.87E-09	1.43E-09	3.83E-09	2.35E-11	1.43E-10	8.37E-11	2.50E-10
1737	576987.3	4194226	3.67E-09	1.24E-08	9.64E-09	0.00E+00	2.57E-08	5.72E-10	1.99E-09	1.52E-09	4.09E-09	2.51E-11	1.52E-10	8.93E-11	2.66E-10
1738	576980.4	4194241	2.97E-09	1.00E-08	7.80E-09	0.00E+00	2.08E-08	4.63E-10	1.61E-09	1.23E-09	3.31E-09	2.03E-11	1.23E-10	7.23E-11	2.16E-10
1739	576978.9	4194232	3.19E-09	1.07E-08	8.37E-09	0.00E+00	2.23E-08	4.97E-10	1.73E-09	1.32E-09	3.55E-09	2.18E-11	1.32E-10	7.76E-11	2.31E-10
1740	576976	4194215	3.60E-09	1.21E-08	9.45E-09	0.00E+00	2.52E-08	5.61E-10	1.95E-09	1.49E-09	4.01E-09	2.46E-11	1.49E-10	8.76E-11	2.61E-10
1741	576969.2	4194230	2.97E-09	9.99E-09	7.80E-09	0.00E+00	2.08E-08	4.63E-10	1.61E-09	1.23E-09	3.31E-09	2.03E-11	1.23E-10	7.22E-11	2.16E-10
1742	576966.3	4194212	3.34E-09	1.12E-08	8.77E-09	0.00E+00	2.34E-08	5.21E-10	1.81E-09	1.39E-09	3.72E-09	2.29E-11	1.38E-10	8.13E-11	2.43E-10
1743	576960.8	4194236	2.59E-09	8.72E-09	6.80E-09	0.00E+00	1.81E-08	4.04E-10	1.41E-09	1.07E-09	2.88E-09	1.77E-11	1.07E-10	6.30E-11	1.88E-10
1744	576958	4194219	2.95E-09	9.91E-09	7.73E-09	0.00E+00	2.06E-08	4.59E-10	1.60E-09	1.22E-09	3.28E-09	2.01E-11	1.22E-10	7.17E-11	2.14E-10
1745	577171.6	4194539	4.28E-09	1.44E-08	1.12E-08	0.00E+00	2.99E-08	6.67E-10	2.32E-09	1.78E-09	4.77E-09	2.93E-11	1.77E-10	1.04E-10	3.11E-10
1746	577180.5	4194541	4.63E-09	1.56E-08	1.22E-08	0.00E+00	3.24E-08	7.21E-10	2.51E-09	1.92E-09	5.15E-09	3.17E-11	1.92E-10	1.13E-10	3.36E-10
1747	577153.2	4194542	3.39E-09	1.14E-08	8.89E-09	0.00E+00	2.37E-08	5.27E-10	1.84E-09	1.40E-09	3.77E-09	2.31E-11	1.40E-10	8.23E-11	2.46E-10
1748	577146	4194537	3.08E-09	1.04E-08	8.10E-09	0.00E+00	2.16E-08	4.80E-10	1.67E-09	1.28E-09	3.43E-09	2.11E-11	1.28E-10	7.50E-11	2.24E-10
1749	576951.1	4194234	2.43E-09	8.16E-09	6.37E-09	0.00E+00	1.70E-08	3.78E-10	1.32E-09	1.01E-09	2.70E-09	1.66E-11	1.00E-10	5.90E-11	1.76E-10
1750	576948.2	4194216	2.75E-09	9.24E-09	7.21E-09	0.00E+00	1.92E-08	4.28E-10	1.49E-09	1.14E-09	3.06E-09	1.88E-11	1.14E-10	6.68E-11	1.99E-10
1751	577169.3	4194549	4.04E-09	1.36E-08	1.06E-08	0.00E+00	2.83E-08	6.30E-10	2.19E-09	1.68E-09	4.50E-09	2.77E-11	1.68E-10	9.84E-11	2.94E-10
1752	577178.2	4194551	4.33E-09	1.46E-08	1.14E-08	0.00E+00	3.03E-08	6.75E-10	2.35E-09	1.80E-09	4.82E-09	2.96E-11	1.80E-10	1.05E-10	3.15E-10
1753	577150.9	4194552	3.21E-09	1.08E-08	8.43E-09	0.00E+00	2.25E-08	5.00E-10	1.74E-09	1.33E-09	3.57E-09	2.20E-11	1.33E-10	7.81E-11	2.33E-10
1754	577136.7	4194541	2.68E-09	9.03E-09	7.05E-09	0.00E+00	1.88E-08	4.18E-10	1.46E-09	1.11E-09	2.99E-09	1.84E-11	1.11E-10	6.53E-11	1.95E-10
1755	577122.4	4194531	2.15E-09	7.22E-09	5.63E-09	0.00E+00	1.50E-08	3.34E-10	1.16E-09	8.90E-10	2.39E-09	1.47E-11	8.89E-11	5.22E-11	1.56E-10
1756	576941.3	4194231	2.27E-09	7.64E-09	5.96E-09	0.00E+00	1.59E-08	3.54E-10	1.23E-09	9.41E-10	2.53E-09	1.55E-11	9.40E-11	5.52E-11	1.65E-10
1757	576938.5	4194214	2.56E-09	8.61E-09	6.72E-09	0.00E+00	1.79E-08	3.99E-10	1.39E-09	1.06E-09	2.85E-09	1.75E-11	1.06E-10	6.23E-11	1.86E-10
1758	577167	4194559	3.82E-09	1.28E-08	1.00E-08	0.00E+00	2.67E-08	5.94E-10	2.07E-09	1.58E-09	4.25E-09	2.61E-11	1.58E-10	9.28E-11	2.77E-10
1759	577175.9	4194561	4.05E-09	1.36E-08	1.06E-08	0.00E+00	2.83E-08	6.31E-10	2.20E-09	1.68E-09	4.51E-09	2.77E-11	1.68E-10	9.86E-11	2.94E-10
1760	577148.4	4194561	3.02E-09	1.02E-08	7.93E-09	0.00E+00	2.11E-08	4.70E-10	1.64E-09	1.25E-09	3.36E-09	2.06E-11	1.25E-10	7.34E-11	2.19E-10
1761	577141	4194556	2.79E-09	9.40E-09	7.34E-09	0.00E+00	1.95E-08	4.35E-10	1.52E-09	1.16E-09	3.11E-09	1.91E-11	1.16E-10	6.80E-11	2.03E-10
1762	577126.2	4194545	2.29E-09	7.70E-09	6.01E-09	0.00E+00	1.60E-08	3.57E-10	1.24E-09	9.49E-10	2.55E-09	1.57E-11	9.48E-11	5.57E-11	1.66E-10
1763	577118.9	4194540	2.04E-09	6.86E-09	5.35E-09	0.00E+00	1.43E-08	3.18E-10	1.11E-09	8.45E-10	2.27E-09	1.39E-11	8.44E-11	4.96E-11	1.48E-10
1764	577104.1	4194529	1.59E-09	5.35E-09	4.17E-09	0.00E+00	1.11E-08	2.47E-10	8.62E-10	6.59E-10	1.77E-09	1.09E-11	6.58E-11	3.86E-11	1.15E-10
1765	577096.7	4194524	1.42E-09	4.78E-09	3.73E-09	0.00E+00	9.94E-09	2.21E-10	7.71E-10	5.89E-10	1.58E-09	9.72E-12	5.89E-11	3.46E-11	1.03E-10
1766	576931.8	4194230	2.11E-09	7.10E-09	5.54E-09	0.00E+00	1.47E-08	3.28E-10	1.14E-09	8.74E-10	2.35E-09	1.44E-11	8.73E-11	5.13E-11	1.53E-10
1767	576930.3	4194221	2.25E-09	7.57E-09	5.91E-09	0.00E+00	1.57E-08	3.51E-10	1.22E-09	9.33E-10	2.50E-09	1.54E-11	9.32E-11	5.47E-11	1.63E-10
1768	576928.8	4194212	2.38E-09	8.02E-09	6.25E-09	0.00E+00	1.67E-08	3.71E-10	1.29E-09	9.88E-10	2.65E-09	1.63E-11	9.87E-11	5.79E-11	1.73E-10
1769	576927.4	4194203	2.51E-09	8.45E-09	6.59E-09	0.00E+00	1.75E-08	3.91E-10	1.36E-09	1.04E-09	2.79E-09	1.72E-11	1.04E-10	6.11E-11	1.82E-10
1770	577155.8	4194566	3.24E-09	1.09E-08	8.50E-09	0.00E+00	2.26E-08	5.04E-10	1.76E-09	1.34E-09	3.60E-09	2.21E-11	1.34E-10	7.88E-11	2.35E-10
1771	577164.7	4194569	3.55E-09	1.20E-08	9.33E-09	0.00E+00	2.49E-08	5.54E-10	1.93E-09	1.47E-09	3.96E-09	2.43E-11	1.47E-10	8.65E-11	2.58E-10
1772	577173.6	4194571	3.77E-09	1.27E-08	9.90E-09	0.00E+00	2.64E-08	5.88E-10	2.05E-09	1.56E-09	4.20E-09	2.58E-11	1.56E-10	9.17E-11	2.74E-10
1773	577146.1	4194571	2.84E-09	9.55E-09	7.45E-09	0.00E+00	1.98E-08	4.42E-10	1.54E-09	1.18E-09	3.16E-09	1.94E-11	1.18E-10	6.90E-11	2.06E-10
1774	577138.8	4194566	2.65E-09	8.91E-09	6.95E-09	0.00E+00	1.85E-08	4.12E-10	1.44E-09	1.10E-09	2.95E-09	1.81E-11	1.10E-10	6.44E-11	1.92E-10
1775	577131.4	4194560	2.44E-09	8.21E-09	6.41E-09	0.00E+00	1.71E-08	3.80E-10	1.32E-09	1.01E-09	2.72E-09	1.67E-11	1.01E-10	5.94E-11	1.77E-10
1776	577116.8	4194550	1.98E-09	6.68E-09	5.21E-09	0.00E+00	1.39E-08	3.09E-10	1.08E-09	8.22E-10	2.21E-09	1.36E-11	8.22E-11	4.82E-11	1.44E-10
1777	577102.1	4194539	1.57E-09	5.29E-09	4.13E-09	0.00E+00	1.10E-08	2.45E-10	8.54E-10	6.52E-10	1.75E-09	1.08E-11	6.52E-11	3.83E-11	1.14E-10
1778	577094.8	4194534	1.41E-09	4.75E-09	3.71E-09	0.00E+00	9.88E-09	2.20E-10	7.67E-10	5.86E-10	1.57E-09	9.66E-12	5.85E-11	3.44E-11	1.03E-10
1779	577080.1	4194523	1.14E-09	3.82E-09	2.98E-09	0.00E+00	7.94E-09	1.77E-10	6.16E-10	4.71E-10	1.26E-09	7.76E-12	4.70E-11	2.76E-11	8.24E-11
1780	577065.5	4194513	9.39E-10	3.16E-09	2.47E-09	0.00E+00	6.56E-09	1.46E-10	5.09E-10	3.89E-10	1.04E-09	6.42E-12	3.89E-11	2.28E-11	6.81E-11
1781	576920.5	4194219	2.11E-09	7.10E-09	5.54E-09	0.00E+00	1.48E-08	3.29E-10	1.15E-09	8.75E-10	2.35E-09	1.44E-11	8.74E-11	5.13E-11	1.53E-10
1782	576919.1	4194210	2.23E-09	7.51E-09	5.86E-09	0.00E+00	1.56E-08	3.48E-10	1.21E-09	9.25E-10	2.48E-09	1.53E-11	9.24E-11	5.43E-11	1.62E-10
1783	577162.3	4194578	3.30E-09	1.11E-08	8.67E-09	0.00E+00	2.31E-08	5.15E-10	1.79E-09	1.37E-09	3.68E-09	2.26E-11	1.37E-10	8.04E-11	2.40E-10
1784	577171.2	4194580	3.52E-09	1.18E-08	9.23E-09	0.00E+00	2.46E-08	5.48E-10	1.91E-09	1.46E-09	3.91E-09	2.40E-11	1.46E-10	8.55E-11	2.55E-10
1785	577190.1	4194292	3.09E-08	1.04E-07	8.10E-08	0.00E+00	2.16E-07	4.81E-09	1.67E-08	1.28E-08	3.43E-08	2.11E-10	1.28E-09	7.51E-10	2.24E-09
1786	577165.5	4194262	3.29E-08	1.11E-07	8.64E-08	0.00E+00	2.30E-07	5.13E-09	1.79E-08	1.36E-08	3.66E-08	2.25E-10	1.36E-09	8.00E-10	2.39E-09
1787	577212.2	4194272	8.26E-08	2.78E-07	2.17E-07	0.00E+00	5.77E-07	1.29E-08	4.48E-08	3.42E-08	9.19E-08	5.65E-10	3.42E-09	2.01E-09	5.99E-09
1788	577161.8	4194221	3.90E-08	1.31E-07	1.02E-07	0.00E+00	2.73E-07	6.08E-09	2.12E-08	1.62E-08	4.34E-08	2.67E-10	1.62E-09	9.49E-10	2.83E-09
1789	577191.8	4194546	5.01E-09	1.69E-08	1.32E-08	0.00E+00	3.51E-08	7.81E-10	2.72E-09	2.08E-09	5.58E-09	3.43E-11	2.08E-10	1.22E-10	3.64E-10
1790	577201.1	4194548	5.42E-09	1.82E-08	1.42E-08	0.00E+00	3.79E-08	8.44E-10	2.94E-09	2.25E-09	6.03E-09	3.71E-11	2.25E-10	1.32E-10	3.93E-10
1791	577210.4	4194550	5.85E-09	1.97E-08	1.54E-08	0.00E+00	4.09E-08	9.11E-10	3.17E-09	2.42E-09	6.51E-09	4.00E-11	2.42E-10	1.42E-10	4.24E-10
1792	577219.8	4194553	6.27E-09	2.11E-08	1.65E-08	0.00E+00	4.38E-08	9.77E-10	3.40E-09	2.60E-09	6.98E-09	4.29E-11	2.60E-10	1.53E-10	4.55E-10
1793	577229.1	4194555	6.70E-09	2.25E-08	1.76E-08	0.00E+00	4.68E-08	1.04E-09	3.63E-09	2.78E-09	7.46E-09	4.58E-11	2.77E-10	1.63E-10	4.86E-10
1794	577238.4	4194557	7.12E-09	2.40E-08	1.87E-08	0.00E+00	4.98E-08	1.11E-09	3.86E-09	2.95E-09	7.93E-09	4.87E-11	2.95E-10	1.73E-10	5.17E-10
1795	577247.8	4194559	7.52E-09	2.53E-08	1.98E-08	0.00E+00	5.26E-08	1.17E-09	4.08E-09	3.12E-09	8.37E-09	5.14E-11	3.12E-10	1.83E-10	5.46E-10
1796	577189.5	4194556	4.65E-09	1.56E-08	1.22E-08	0.00E+00	3.25E-08	7.24E-10	2.52E-09	1.93E-09	5.17E-09	3.18E-11	1.93E-10	1.13E-10	3.37E-10
1797	577198.8	4194558	4.98E-09	1.68E-08	1.31E-08	0.00E+00	3.48E-08	7.76E-10	2.70E-09	2.06E-09	5.54E-09	3.41E-11	2.06E-10	1.21E-10	3.62E-10
1798	577208.1	4194560	5.36E-09	1.80E-08	1.41E-08	0.00E+00	3.75E-08	8.35E-10	2.91E-09	2.22E-09	5.97E-09	3.67E-11	2.22E-10	1.30E-10	3.89E-10
1799	577217.4	4194562	5.74E-09	1.93E-08	1.51E-08	0.00E+00	4.01E-08	8.94E-10	3.11E-09	2.38E-09	6.38E-09	3.92E-11	2.38E-10	1.40E-10	4.16E-10
1800	577226.8	4194565	6.11E-09	2.06E-08	1.60E-08	0.00E+00	4.27E-08	9.52E-10	3.32E-09	2.53E-09	6.80E-09	4.18E-11	2.53E-10	1.49E-10	4.44E-10

1801	577236.1	4194567	6.50E-09	2.19E-08	1.71E-08	0.00E+00	4.54E-08	1.01E-09	3.52E-09	2.69E-09	7.23E-09	4.44E-11	2.69E-10	1.58E-10	4.72E-10
1802	577245.4	4194569	6.87E-09	2.31E-08	1.80E-08	0.00E+00	4.80E-08	1.07E-09	3.73E-09	2.85E-09	7.64E-09	4.70E-11	2.84E-10	1.67E-10	4.98E-10
1803	577187.1	4194565	4.31E-09	1.45E-08	1.13E-08	0.00E+00	3.02E-08	6.72E-10	2.34E-09	1.79E-09	4.80E-09	2.95E-11	1.79E-10	1.05E-10	3.13E-10
1804	577196.5	4194568	4.59E-09	1.55E-08	1.21E-08	0.00E+00	3.21E-08	7.16E-10	2.49E-09	1.90E-09	5.11E-09	3.14E-11	1.90E-10	1.12E-10	3.33E-10
1805	577205.8	4194570	4.93E-09	1.66E-08	1.29E-08	0.00E+00	3.45E-08	7.68E-10	2.68E-09	2.04E-09	5.49E-09	3.37E-11	2.04E-10	1.20E-10	3.58E-10
1806	577215.1	4194572	5.27E-09	1.77E-08	1.38E-08	0.00E+00	3.68E-08	8.20E-10	2.86E-09	2.18E-09	5.86E-09	3.60E-11	2.18E-10	1.28E-10	3.82E-10
1807	577224.4	4194574	5.59E-09	1.88E-08	1.47E-08	0.00E+00	3.91E-08	8.71E-10	3.04E-09	2.32E-09	6.23E-09	3.83E-11	2.32E-10	1.36E-10	4.06E-10
1808	577233.8	4194577	5.94E-09	2.00E-08	1.56E-08	0.00E+00	4.16E-08	9.26E-10	3.23E-09	2.46E-09	6.62E-09	4.07E-11	2.46E-10	1.45E-10	4.32E-10
1809	577243.1	4194579	6.28E-09	2.12E-08	1.65E-08	0.00E+00	4.39E-08	9.79E-10	3.41E-09	2.61E-09	7.00E-09	4.30E-11	2.60E-10	1.53E-10	4.56E-10
1810	577184.8	4194575	4.01E-09	1.35E-08	1.05E-08	0.00E+00	2.81E-08	6.25E-10	2.18E-09	1.66E-09	4.47E-09	2.74E-11	1.66E-10	9.76E-11	2.91E-10
1811	577194.1	4194577	4.25E-09	1.43E-08	1.12E-08	0.00E+00	2.97E-08	6.62E-10	2.31E-09	1.76E-09	4.73E-09	2.91E-11	1.76E-10	1.03E-10	3.08E-10
1812	577203.5	4194580	4.55E-09	1.53E-08	1.20E-08	0.00E+00	3.18E-08	7.09E-10	2.47E-09	1.89E-09	5.07E-09	3.11E-11	1.89E-10	1.11E-10	3.30E-10
1813	577212.8	4194582	4.85E-09	1.63E-08	1.27E-08	0.00E+00	3.39E-08	7.56E-10	2.63E-09	2.01E-09	5.40E-09	3.32E-11	2.01E-10	1.18E-10	3.52E-10
1814	577222.1	4194584	5.14E-09	1.73E-08	1.35E-08	0.00E+00	3.59E-08	8.01E-10	2.79E-09	2.13E-09	5.72E-09	3.52E-11	2.13E-10	1.25E-10	3.73E-10
1815	577231.5	4194586	5.45E-09	1.84E-08	1.43E-08	0.00E+00	3.81E-08	8.50E-10	2.96E-09	2.26E-09	6.07E-09	3.73E-11	2.26E-10	1.33E-10	3.96E-10
1816	577240.8	4194589	5.76E-09	1.94E-08	1.51E-08	0.00E+00	4.03E-08	8.98E-10	3.13E-09	2.39E-09	6.41E-09	3.94E-11	2.39E-10	1.40E-10	4.18E-10
1817	577182.5	4194585	3.74E-09	1.26E-08	9.82E-09	0.00E+00	2.61E-08	5.83E-10	2.03E-09	1.55E-09	4.16E-09	2.56E-11	1.55E-10	9.10E-11	2.71E-10
1818	577191.8	4194587	3.96E-09	1.33E-08	1.04E-08	0.00E+00	2.77E-08	6.16E-10	2.15E-09	1.64E-09	4.40E-09	2.71E-11	1.64E-10	9.62E-11	2.87E-10
1819	577201.1	4194589	4.21E-09	1.42E-08	1.11E-08	0.00E+00	2.95E-08	6.57E-10	2.29E-09	1.75E-09	4.69E-09	2.88E-11	1.75E-10	1.03E-10	3.06E-10
1820	577210.5	4194592	4.48E-09	1.51E-08	1.18E-08	0.00E+00	3.13E-08	6.98E-10	2.43E-09	1.86E-09	4.98E-09	3.06E-11	1.86E-10	1.09E-10	3.25E-10
1821	577219.8	4194594	4.73E-09	1.59E-08	1.24E-08	0.00E+00	3.31E-08	7.37E-10	2.57E-09	1.96E-09	5.27E-09	3.24E-11	1.96E-10	1.15E-10	3.44E-10
1822	577229.1	4194596	5.00E-09	1.68E-08	1.31E-08	0.00E+00	3.50E-08	7.79E-10	2.71E-09	2.07E-09	5.57E-09	3.42E-11	2.07E-10	1.22E-10	3.63E-10
1823	577238.5	4194598	5.28E-09	1.78E-08	1.39E-08	0.00E+00	3.69E-08	8.23E-10	2.87E-09	2.19E-09	5.88E-09	3.61E-11	2.19E-10	1.28E-10	3.83E-10
1824	577144.7	4194583	2.69E-09	9.04E-09	7.05E-09	0.00E+00	1.88E-08	4.18E-10	1.46E-09	1.11E-09	2.99E-09	1.84E-11	1.11E-10	6.53E-11	1.95E-10
1825	577137.2	4194577	2.52E-09	8.49E-09	6.62E-09	0.00E+00	1.76E-08	3.93E-10	1.37E-09	1.05E-09	2.81E-09	1.72E-11	1.04E-10	6.14E-11	1.83E-10
1826	577129.6	4194572	2.33E-09	7.85E-09	6.12E-09	0.00E+00	1.63E-08	3.63E-10	1.27E-09	9.67E-10	2.59E-09	1.59E-11	9.66E-11	5.67E-11	1.69E-10
1827	577122.1	4194566	2.13E-09	7.15E-09	5.58E-09	0.00E+00	1.49E-08	3.31E-10	1.15E-09	8.81E-10	2.37E-09	1.45E-11	8.80E-11	5.17E-11	1.54E-10
1828	577114.6	4194561	1.92E-09	6.47E-09	5.05E-09	0.00E+00	1.34E-08	3.00E-10	1.04E-09	7.97E-10	2.14E-09	1.32E-11	7.97E-11	4.68E-11	1.40E-10
1829	577107.1	4194555	1.73E-09	5.81E-09	4.53E-09	0.00E+00	1.21E-08	2.69E-10	9.37E-10	7.16E-10	1.92E-09	1.18E-11	7.15E-11	4.20E-11	1.25E-10
1830	577099.6	4194550	1.55E-09	5.21E-09	4.07E-09	0.00E+00	1.08E-08	2.41E-10	8.40E-10	6.42E-10	1.72E-09	1.06E-11	6.41E-11	3.77E-11	1.12E-10
1831	577092.1	4194545	1.39E-09	4.68E-09	3.65E-09	0.00E+00	9.73E-09	2.17E-10	7.55E-10	5.77E-10	1.55E-09	9.51E-12	5.76E-11	3.38E-11	1.01E-10
1832	577084.6	4194539	1.25E-09	4.20E-09	3.27E-09	0.00E+00	8.72E-09	1.94E-10	6.76E-10	5.17E-10	1.39E-09	8.53E-12	5.16E-11	3.03E-11	9.05E-11
1833	577077.1	4194534	1.12E-09	3.75E-09	2.93E-09	0.00E+00	7.80E-09	1.74E-10	6.05E-10	4.62E-10	1.24E-09	7.63E-12	4.62E-11	2.71E-11	8.10E-11
1834	577069.6	4194528	1.00E-09	3.38E-09	2.64E-09	0.00E+00	7.03E-09	1.57E-10	5.45E-10	4.17E-10	1.12E-09	6.87E-12	4.16E-11	2.44E-11	7.29E-11
1835	577062.1	4194523	9.16E-10	3.08E-09	2.41E-09	0.00E+00	6.40E-09	1.43E-10	4.97E-10	3.80E-10	1.02E-09	6.26E-12	3.79E-11	2.23E-11	6.65E-11
1836	577054.6	4194518	8.43E-10	2.84E-09	2.21E-09	0.00E+00	5.89E-09	1.31E-10	4.57E-10	3.50E-10	9.38E-10	5.76E-12	3.49E-11	2.05E-11	6.12E-11
1837	577047.1	4194512	7.84E-10	2.64E-09	2.06E-09	0.00E+00	5.48E-09	1.22E-10	4.26E-10	3.25E-10	8.73E-10	5.36E-12	3.25E-11	1.91E-11	5.69E-11
1838	577039.6	4194507	7.37E-10	2.48E-09	1.93E-09	0.00E+00	5.15E-09	1.15E-10	4.00E-10	3.05E-10	8.20E-10	5.04E-12	3.05E-11	1.79E-11	5.35E-11
1839	577032	4194501	6.99E-10	2.35E-09	1.84E-09	0.00E+00	4.89E-09	1.09E-10	3.80E-10	2.90E-10	7.78E-10	4.78E-12	2.90E-11	1.70E-11	5.08E-11
1840	577152.2	4194588	2.84E-09	9.57E-09	7.47E-09	0.00E+00	1.99E-08	4.43E-10	1.54E-09	1.18E-09	3.17E-09	1.95E-11	1.18E-10	6.92E-11	2.06E-10
1841	577161.5	4194590	3.10E-09	1.04E-08	8.14E-09	0.00E+00	2.17E-08	4.83E-10	1.68E-09	1.29E-09	3.45E-09	2.12E-11	1.28E-10	7.54E-11	2.25E-10
1842	577170.8	4194592	3.31E-09	1.11E-08	8.70E-09	0.00E+00	2.32E-08	5.16E-10	1.80E-09	1.37E-09	3.69E-09	2.27E-11	1.37E-10	8.06E-11	2.40E-10
1843	577180.2	4194595	3.51E-09	1.18E-08	9.21E-09	0.00E+00	2.45E-08	5.47E-10	1.90E-09	1.45E-09	3.90E-09	2.40E-11	1.45E-10	8.53E-11	2.55E-10
1844	577189.5	4194597	3.70E-09	1.24E-08	9.71E-09	0.00E+00	2.59E-08	5.76E-10	2.01E-09	1.53E-09	4.12E-09	2.53E-11	1.53E-10	9.00E-11	2.68E-10
1845	577198.8	4194599	3.91E-09	1.32E-08	1.03E-08	0.00E+00	2.74E-08	6.10E-10	2.12E-09	1.62E-09	4.35E-09	2.68E-11	1.62E-10	9.52E-11	2.84E-10
1846	577208.1	4194601	4.15E-09	1.40E-08	1.09E-08	0.00E+00	2.90E-08	6.46E-10	2.25E-09	1.72E-09	4.61E-09	2.83E-11	1.72E-10	1.01E-10	3.01E-10
1847	577217.5	4194604	4.37E-09	1.47E-08	1.15E-08	0.00E+00	3.05E-08	6.81E-10	2.37E-09	1.81E-09	4.86E-09	2.99E-11	1.81E-10	1.06E-10	3.17E-10
1848	577226.8	4194606	4.60E-09	1.55E-08	1.21E-08	0.00E+00	3.21E-08	7.16E-10	2.49E-09	1.91E-09	5.12E-09	3.14E-11	1.90E-10	1.12E-10	3.34E-10
1849	577236.1	4194608	4.86E-09	1.63E-08	1.28E-08	0.00E+00	3.39E-08	7.57E-10	2.63E-09	2.01E-09	5.40E-09	3.32E-11	2.01E-10	1.18E-10	3.52E-10
1850	577142.1	4194592	2.54E-09	8.54E-09	6.66E-09	0.00E+00	1.77E-08	3.95E-10	1.38E-09	1.05E-09	2.82E-09	1.73E-11	1.05E-10	6.17E-11	1.84E-10
1851	577134.3	4194586	2.39E-09	8.06E-09	6.29E-09	0.00E+00	1.67E-08	3.73E-10	1.30E-09	9.92E-10	2.66E-09	1.64E-11	9.91E-11	5.82E-11	1.74E-10
1852	577126.5	4194581	2.20E-09	7.41E-09	5.78E-09	0.00E+00	1.54E-08	3.43E-10	1.20E-09	9.13E-10	2.45E-09	1.51E-11	9.12E-11	5.36E-11	1.60E-10
1853	577118.7	4194575	2.01E-09	6.77E-09	5.28E-09	0.00E+00	1.41E-08	3.13E-10	1.09E-09	8.34E-10	2.24E-09	1.38E-11	8.33E-11	4.89E-11	1.46E-10
1854	577111	4194570	1.82E-09	6.14E-09	4.79E-09	0.00E+00	1.27E-08	2.84E-10	9.90E-10	7.56E-10	2.03E-09	1.25E-11	7.55E-11	4.44E-11	1.32E-10
1855	577103.2	4194564	1.64E-09	5.53E-09	4.31E-09	0.00E+00	1.15E-08	2.56E-10	8.91E-10	6.81E-10	1.83E-09	1.12E-11	6.80E-11	3.99E-11	1.19E-10
1856	577095.4	4194558	1.48E-09	4.99E-09	3.89E-09	0.00E+00	1.04E-08	2.31E-10	8.04E-10	6.15E-10	1.65E-09	1.01E-11	6.14E-11	3.61E-11	1.08E-10
1857	577087.6	4194553	1.33E-09	4.47E-09	3.49E-09	0.00E+00	9.29E-09	2.07E-10	7.21E-10	5.51E-10	1.48E-09	9.09E-12	5.51E-11	3.23E-11	9.65E-11
1858	577072.1	4194542	1.06E-09	3.58E-09	2.79E-09	0.00E+00	7.44E-09	1.66E-10	5.77E-10	4.41E-10	1.18E-09	7.28E-12	4.41E-11	2.59E-11	7.72E-11
1859	577064.3	4194536	9.63E-10	3.24E-09	2.53E-09	0.00E+00	6.73E-09	1.50E-10	5.22E-10	3.99E-10	1.07E-09	6.58E-12	3.99E-11	2.34E-11	6.99E-11
1860	577056.5	4194530	8.73E-10	2.94E-09	2.29E-09	0.00E+00	6.10E-09	1.36E-10	4.74E-10	3.62E-10	9.71E-10	5.97E-12	3.61E-11	2.12E-11	6.33E-11
1861	577048.8	4194525	7.97E-10	2.68E-09	2.09E-09	0.00E+00	5.57E-09	1.24E-10	4.32E-10	3.30E-10	8.87E-10	5.45E-12	3.30E-11	1.94E-11	5.78E-11
1862	577041	4194519	7.38E-10	2.48E-09	1.94E-09	0.00E+00	5.16E-09	1.15E-10	4.00E-10	3.06E-10	8.21E-10	5.04E-12	3.06E-11	1.79E-11	5.35E-11
1863	577033.2	4194514	6.89E-10	2.32E-09	1.81E-09	0.00E+00	4.82E-09	1.07E-10	3.74E-10	2.86E-10	7.67E-10	4.71E-12	2.86E-11	1.68E-11	5.00E-11
1864	577025.4	4194508	6.53E-10	2.20E-09	1.71E-09	0.00E+00	4.56E-09	1.02E-10	3.54E-10	2.71E-10	7.26E-10	4.46E-12	2.70E-11	1.59E-11	4.74E-11
1865	577017.7	4194502	6.28E-10	2.11E-09	1.65E-09	0.00E+00	4.39E-09	9.78E-11	3.41E-10	2.60E-10	6.98E-10	4.29E-12	2.60E-11	1.53E-11	4.56E-11
1866	577009.9	4194497	6.14E-10	2.07E-09	1.61E-09	0.00E+00	4.29E-09	9.57E-11	3.33E-10	2.55E-10	6.83E-10	4.20E-12	2.54E-11	1.49E-11	4.46E-11
1867	577002.1	4194491	6.04E-10	2.03E-09	1.59E-09	0.00E+00	4.22E-09	9.41E-11	3.28E-10	2.50E-10	6.72E-10	4.13E-12	2.50E-11	1.47E-11	4.38E-11
1868	577149.8	4194598	2.69E-09	9.04E-09	7.05E-09	0.00E+00	1.88E-08	4.18E-10	1.46E-09	1.11E-09	2.99E-09	1.84E-11	1.11E-10	6.53E-11	1.95E-10
1869	577159.2	4194600	2.92E-09	9.83E-09	7.67E-09	0.00E+00	2.04E-08	4.55E-10	1.58E-09	1.21E-09	3.25E-09	2.00E-11	1.21E-10	7.10E-11	2.12E-10
1870	577168.5	4194602	3.13E-09	1.05E-08	8.22E-09	0.00E+00	2.19E-08	4.88E-10	1.70E-09	1.30E-09	3.48E-09	2.14E-11	1.30E-10	7.61E-11	2.27E-10
1871	577177.8	4194604	3.30E-09	1.11E-08	8.67E-09	0.00E+00	2.31E-08	5.14E-10	1.79E-09	1.37E-09	3.68E-09	2.26E-11	1.37E-10	8.03E-11	2.40E-10
1872	577187.2	4194607	3.47E-09	1.17E-08	9.11E-09	0.00E+00	2.43E-08	5.40E-10	1.88E-09	1.44E-09	3.86E-09	2.37E-11	1.44E-10	8.44E-11	2.52E-10
1873	577196.5	4194609	3.64E-09	1.23E-08	9.57E-09	0.00E+00	2.55E-08	5.68E-10	1.98E-09	1.51E-09	4.06E-09	2.49E-11	1.51E-10	8.86E-11	2.64E-10
1874	577205.8	4194611	3.85E-09	1.30E-08	1.01E-08	0.00E+00	2.69E-08	6.00E-10	2.09E-09	1.60E-09	4.29E-09	2.63E-11	1.60E-10	9.37E-11	2.80E-10
1875	577215.1	4194613	4.05E-09	1.36E-08	1.06E-08	0.00E+00	2.83E-08	6.31E-10	2.20E-09	1.68E-09	4.51E-09	2.77E-11	1.68E-10	9.85E-11	2.94E-10
1876	577224.5	4194616	4.24E-09	1.43E-08	1.11E-08	0.00E+00	2.96E-08	6.61E-10	2.30E-09	1.76E-09	4.72E-09	2.90E-11	1.76E-10	1.03E-10	3.08E-10
1877	577233.8	4194618	4.48E-09	1.51E-08	1.18E-08	0.00E+00	3.13E-08	6.98E-10	2.43E-09	1.86E-09	4.99E-09	3.06E-11	1.86E-10	1.09E-10	3.25E-10
1878	577139.8	4194602	2.40E-09	8.09E-09	6.31E-09	0.00E+00	1.68E-08	3.75E-10	1.30E-09	9.97E-10	2.68E-09	1.64E-11	9.96E-11	5.85E-11	1.75E-10
1879	577132.1	4194596	2.27E-09	7.63E-09	5.95E-09	0.00E+00	1.59E-08	3.53E-10	1.23E-09	9.40E-10	2.52E-09	1.55E-11	9.39E-11	5.52E-11	1.65E-10
1880	577124.4	4194591	2.10E-09	7.08E-09	5.52E-09	0.00E+00	1.47E-08	3.28E-10	1.14E-09	8.72E-10	2.34E-09	1.44E-11	8.71E-11	5.12E-11	1.53E-10
1881	577116.7	4194585	1.94E-09	6.52E-09	5.09E-09	0.00E+00	1.36E-08	3.02E-10	1.05E-09	8.04E-10	2.16E-09	1.33E-11	8.03E-11	4.72E-11	1.41E-10
1882	577109	4194580	1.77E-09	5.96E-09	4.65E-09	0.00E+00	1.24E-08	2.76E-10	9.61E-10	7.34E-10	1.97E-09	1.21E-11	7.33E-11	4.31E-11	1.29E-10

1883	577101.3	4194574	1.61E-09	5.42E-09	4.23E-09	0.00E+00	1.13E-08	2.51E-10	8.74E-10	6.68E-10	1.79E-09	1.10E-11	6.67E-11	3.92E-11	1.17E-10
1884	577093.6	4194569	1.47E-09	4.93E-09	3.85E-09	0.00E+00	1.02E-08	2.28E-10	7.95E-10	6.08E-10	1.63E-09	1.00E-11	6.07E-11	3.57E-11	1.06E-10
1885	577085.8	4194563	1.32E-09	4.45E-09	3.47E-09	0.00E+00	9.24E-09	2.06E-10	7.17E-10	5.48E-10	1.47E-09	9.04E-12	5.48E-11	3.22E-11	9.60E-11
1886	577078.1	4194557	1.18E-09	3.98E-09	3.11E-09	0.00E+00	8.27E-09	1.84E-10	6.42E-10	4.91E-10	1.32E-09	8.09E-12	4.90E-11	2.88E-11	8.59E-11
1887	577070.4	4194552	1.06E-09	3.58E-09	2.80E-09	0.00E+00	7.44E-09	1.66E-10	5.78E-10	4.41E-10	1.19E-09	7.28E-12	4.41E-11	2.59E-11	7.73E-11
1888	577062.7	4194546	9.65E-10	3.25E-09	2.53E-09	0.00E+00	6.75E-09	1.50E-10	5.24E-10	4.00E-10	1.07E-09	6.60E-12	4.00E-11	2.35E-11	7.01E-11
1889	577055	4194541	8.76E-10	2.95E-09	2.30E-09	0.00E+00	6.12E-09	1.36E-10	4.75E-10	3.63E-10	9.75E-10	5.99E-12	3.63E-11	2.13E-11	6.36E-11
1890	577047.3	4194535	7.97E-10	2.68E-09	2.09E-09	0.00E+00	5.57E-09	1.24E-10	4.33E-10	3.31E-10	8.87E-10	5.45E-12	3.30E-11	1.94E-11	5.79E-11
1891	577039.6	4194530	7.30E-10	2.46E-09	1.92E-09	0.00E+00	5.10E-09	1.14E-10	3.96E-10	3.03E-10	8.12E-10	4.99E-12	3.02E-11	1.78E-11	5.30E-11
1892	577031.9	4194524	6.74E-10	2.27E-09	1.77E-09	0.00E+00	4.71E-09	1.05E-10	3.66E-10	2.79E-10	7.50E-10	4.61E-12	2.79E-11	1.64E-11	4.89E-11
1893	577024.2	4194519	6.32E-10	2.13E-09	1.66E-09	0.00E+00	4.42E-09	9.85E-11	3.43E-10	2.62E-10	7.04E-10	4.32E-12	2.62E-11	1.54E-11	4.59E-11
1894	577016.5	4194513	6.01E-10	2.02E-09	1.58E-09	0.00E+00	4.20E-09	9.37E-11	3.26E-10	2.49E-10	6.69E-10	4.11E-12	2.49E-11	1.46E-11	4.36E-11
1895	577008.8	4194507	5.82E-10	1.96E-09	1.53E-09	0.00E+00	4.07E-09	9.07E-11	3.16E-10	2.41E-10	6.48E-10	3.98E-12	2.41E-11	1.42E-11	4.23E-11
1896	577001.1	4194502	5.72E-10	1.92E-09	1.50E-09	0.00E+00	4.00E-09	8.91E-11	3.10E-10	2.37E-10	6.36E-10	3.91E-12	2.37E-11	1.39E-11	4.15E-11
1897	576993.3	4194496	5.69E-10	1.91E-09	1.49E-09	0.00E+00	3.98E-09	8.86E-11	3.09E-10	2.36E-10	6.33E-10	3.89E-12	2.36E-11	1.38E-11	4.13E-11
1898	576985.6	4194491	5.69E-10	1.92E-09	1.50E-09	0.00E+00	3.98E-09	8.87E-11	3.09E-10	2.36E-10	6.34E-10	3.89E-12	2.36E-11	1.39E-11	4.13E-11
1899	576977.9	4194485	5.80E-10	1.95E-09	1.52E-09	0.00E+00	4.05E-09	9.04E-11	3.15E-10	2.40E-10	6.46E-10	3.97E-12	2.40E-11	1.41E-11	4.21E-11
1900	576970.2	4194480	5.98E-10	2.01E-09	1.57E-09	0.00E+00	4.18E-09	9.32E-11	3.25E-10	2.48E-10	6.66E-10	4.09E-12	2.48E-11	1.45E-11	4.34E-11
1901	577147.5	4194607	2.54E-09	8.55E-09	6.67E-09	0.00E+00	1.78E-08	3.96E-10	1.38E-09	1.05E-09	2.83E-09	1.74E-11	1.05E-10	6.18E-11	1.84E-10
1902	577156.8	4194610	2.76E-09	9.28E-09	7.24E-09	0.00E+00	1.93E-08	4.29E-10	1.50E-09	1.14E-09	3.07E-09	1.88E-11	1.14E-10	6.70E-11	2.00E-10
1903	577166.2	4194612	2.97E-09	9.98E-09	7.79E-09	0.00E+00	2.07E-08	4.62E-10	1.61E-09	1.23E-09	3.30E-09	2.03E-11	1.23E-10	7.21E-11	2.15E-10
1904	577175.5	4194614	3.12E-09	1.05E-08	8.19E-09	0.00E+00	2.18E-08	4.86E-10	1.69E-09	1.29E-09	3.47E-09	2.13E-11	1.29E-10	7.59E-11	2.26E-10
1905	577184.8	4194616	3.26E-09	1.10E-08	8.57E-09	0.00E+00	2.28E-08	5.09E-10	1.77E-09	1.35E-09	3.63E-09	2.23E-11	1.35E-10	7.94E-11	2.37E-10
1906	577194.2	4194619	3.40E-09	1.15E-08	8.93E-09	0.00E+00	2.38E-08	5.30E-10	1.85E-09	1.41E-09	3.79E-09	2.33E-11	1.41E-10	8.28E-11	2.47E-10
1907	577203.5	4194621	3.59E-09	1.21E-08	9.42E-09	0.00E+00	2.51E-08	5.59E-10	1.95E-09	1.49E-09	3.99E-09	2.45E-11	1.49E-10	8.73E-11	2.60E-10
1908	577212.8	4194623	3.77E-09	1.27E-08	9.89E-09	0.00E+00	2.63E-08	5.87E-10	2.04E-09	1.56E-09	4.19E-09	2.58E-11	1.56E-10	9.16E-11	2.73E-10
1909	577222.2	4194625	3.94E-09	1.33E-08	1.04E-08	0.00E+00	2.76E-08	6.14E-10	2.14E-09	1.63E-09	4.39E-09	2.70E-11	1.63E-10	9.59E-11	2.86E-10
1910	577231.5	4194627	4.16E-09	1.40E-08	1.09E-08	0.00E+00	2.91E-08	6.48E-10	2.26E-09	1.72E-09	4.63E-09	2.84E-11	1.72E-10	1.01E-10	3.02E-10
1911	577137.5	4194612	2.28E-09	7.68E-09	5.99E-09	0.00E+00	1.60E-08	3.56E-10	1.24E-09	9.47E-10	2.54E-09	1.56E-11	9.46E-11	5.55E-11	1.66E-10
1912	577129.9	4194606	2.15E-09	7.24E-09	5.65E-09	0.00E+00	1.50E-08	3.35E-10	1.17E-09	8.92E-10	2.39E-09	1.47E-11	8.91E-11	5.23E-11	1.56E-10
1913	577122.3	4194601	2.01E-09	6.75E-09	5.27E-09	0.00E+00	1.40E-08	3.12E-10	1.09E-09	8.32E-10	2.23E-09	1.37E-11	8.31E-11	4.88E-11	1.46E-10
1914	577114.6	4194595	1.86E-09	6.27E-09	4.89E-09	0.00E+00	1.30E-08	2.90E-10	1.01E-09	7.72E-10	2.07E-09	1.27E-11	7.71E-11	4.53E-11	1.35E-10
1915	577107	4194590	1.72E-09	5.78E-09	4.51E-09	0.00E+00	1.20E-08	2.67E-10	9.32E-10	7.12E-10	1.91E-09	1.17E-11	7.11E-11	4.18E-11	1.25E-10
1916	577099.3	4194584	1.58E-09	5.32E-09	4.15E-09	0.00E+00	1.11E-08	2.46E-10	8.58E-10	6.55E-10	1.76E-09	1.08E-11	6.55E-11	3.84E-11	1.15E-10
1917	577091.7	4194579	1.45E-09	4.87E-09	3.80E-09	0.00E+00	1.01E-08	2.26E-10	7.86E-10	6.01E-10	1.61E-09	9.91E-12	6.00E-11	3.52E-11	1.05E-10
1918	577084	4194573	1.32E-09	4.43E-09	3.46E-09	0.00E+00	9.20E-09	2.05E-10	7.14E-10	5.46E-10	1.46E-09	9.00E-12	5.45E-11	3.20E-11	9.55E-11
1919	577076.4	4194568	1.19E-09	3.99E-09	3.11E-09	0.00E+00	8.29E-09	1.85E-10	6.44E-10	4.92E-10	1.32E-09	8.11E-12	4.91E-11	2.88E-11	8.61E-11
1920	577068.7	4194562	1.07E-09	3.60E-09	2.81E-09	0.00E+00	7.49E-09	1.67E-10	5.81E-10	4.44E-10	1.19E-09	7.32E-12	4.43E-11	2.60E-11	7.77E-11
1921	577061.1	4194557	9.66E-10	3.25E-09	2.54E-09	0.00E+00	6.75E-09	1.50E-10	5.24E-10	4.00E-10	1.08E-09	6.61E-12	4.00E-11	2.35E-11	7.01E-11
1922	577053.4	4194551	8.77E-10	2.95E-09	2.30E-09	0.00E+00	6.13E-09	1.37E-10	4.76E-10	3.64E-10	9.76E-10	6.00E-12	3.63E-11	2.13E-11	6.37E-11
1923	577045.8	4194545	7.98E-10	2.69E-09	2.10E-09	0.00E+00	5.58E-09	1.24E-10	4.33E-10	3.31E-10	8.89E-10	5.46E-12	3.31E-11	1.94E-11	5.80E-11
1924	577038.1	4194540	7.31E-10	2.46E-09	1.92E-09	0.00E+00	5.11E-09	1.14E-10	3.97E-10	3.03E-10	8.14E-10	5.00E-12	3.03E-11	1.78E-11	5.31E-11
1925	577030.5	4194534	6.73E-10	2.26E-09	1.77E-09	0.00E+00	4.70E-09	1.05E-10	3.65E-10	2.79E-10	7.49E-10	4.60E-12	2.79E-11	1.64E-11	4.88E-11
1926	577022.8	4194529	6.21E-10	2.09E-09	1.63E-09	0.00E+00	4.34E-09	9.68E-11	3.37E-10	2.58E-10	6.91E-10	4.25E-12	2.57E-11	1.51E-11	4.51E-11
1927	577015.2	4194523	5.81E-10	1.96E-09	1.53E-09	0.00E+00	4.06E-09	9.06E-11	3.15E-10	2.41E-10	6.47E-10	3.98E-12	2.41E-11	1.41E-11	4.22E-11
1928	577007.6	4194518	5.59E-10	1.88E-09	1.47E-09	0.00E+00	3.91E-09	8.71E-11	3.03E-10	2.32E-10	6.22E-10	3.82E-12	2.32E-11	1.36E-11	4.06E-11
1929	576999.9	4194512	5.44E-10	1.83E-09	1.43E-09	0.00E+00	3.81E-09	8.48E-11	2.95E-10	2.26E-10	6.06E-10	3.72E-12	2.25E-11	1.32E-11	3.95E-11
1930	576992.3	4194507	5.36E-10	1.80E-09	1.41E-09	0.00E+00	3.75E-09	8.35E-11	2.91E-10	2.22E-10	5.96E-10	3.66E-12	2.22E-11	1.30E-11	3.89E-11
1931	576984.6	4194501	5.34E-10	1.80E-09	1.40E-09	0.00E+00	3.73E-09	8.31E-11	2.90E-10	2.21E-10	5.94E-10	3.65E-12	2.21E-11	1.30E-11	3.87E-11
1932	576977	4194496	5.39E-10	1.81E-09	1.42E-09	0.00E+00	3.77E-09	8.40E-11	2.93E-10	2.24E-10	6.00E-10	3.69E-12	2.23E-11	1.31E-11	3.91E-11
1933	576969.3	4194490	5.50E-10	1.85E-09	1.44E-09	0.00E+00	3.84E-09	8.57E-11	2.98E-10	2.28E-10	6.12E-10	3.76E-12	2.28E-11	1.34E-11	3.99E-11
1934	576961.7	4194485	5.67E-10	1.91E-09	1.49E-09	0.00E+00	3.96E-09	8.83E-11	3.08E-10	2.35E-10	6.31E-10	3.88E-12	2.35E-11	1.38E-11	4.12E-11
1935	577145.2	4194617	2.41E-09	8.10E-09	6.32E-09	0.00E+00	1.68E-08	3.75E-10	1.31E-09	9.97E-10	2.68E-09	1.65E-11	9.97E-11	5.85E-11	1.75E-10
1936	577154.5	4194619	2.60E-09	8.75E-09	6.82E-09	0.00E+00	1.82E-08	4.05E-10	1.41E-09	1.08E-09	2.89E-09	1.78E-11	1.08E-10	6.32E-11	1.89E-10
1937	577163.9	4194622	2.80E-09	9.43E-09	7.36E-09	0.00E+00	1.96E-08	4.37E-10	1.52E-09	1.16E-09	3.12E-09	1.92E-11	1.16E-10	6.82E-11	2.03E-10
1938	577173.2	4194624	2.93E-09	9.88E-09	7.71E-09	0.00E+00	2.05E-08	4.57E-10	1.59E-09	1.22E-09	3.27E-09	2.01E-11	1.22E-10	7.14E-11	2.13E-10
1939	577182.5	4194626	3.06E-09	1.03E-08	8.04E-09	0.00E+00	2.14E-08	4.77E-10	1.66E-09	1.27E-09	3.41E-09	2.10E-11	1.27E-10	7.45E-11	2.22E-10
1940	577191.8	4194628	3.19E-09	1.07E-08	8.37E-09	0.00E+00	2.23E-08	4.97E-10	1.73E-09	1.32E-09	3.55E-09	2.18E-11	1.32E-10	7.75E-11	2.31E-10
1941	577201.2	4194631	3.35E-09	1.13E-08	8.79E-09	0.00E+00	2.34E-08	5.22E-10	1.82E-09	1.39E-09	3.73E-09	2.29E-11	1.39E-10	8.14E-11	2.43E-10
1942	577210.5	4194633	3.52E-09	1.18E-08	9.23E-09	0.00E+00	2.46E-08	5.48E-10	1.91E-09	1.46E-09	3.91E-09	2.40E-11	1.46E-10	8.55E-11	2.55E-10
1943	577219.8	4194635	3.68E-09	1.24E-08	9.66E-09	0.00E+00	2.57E-08	5.73E-10	2.00E-09	1.52E-09	4.09E-09	2.52E-11	1.52E-10	8.95E-11	2.67E-10
1944	577229.2	4194637	3.87E-09	1.30E-08	1.02E-08	0.00E+00	2.70E-08	6.03E-10	2.10E-09	1.60E-09	4.30E-09	2.65E-11	1.60E-10	9.41E-11	2.81E-10
1945	577135.3	4194621	2.17E-09	7.29E-09	5.69E-09	0.00E+00	1.51E-08	3.37E-10	1.18E-09	8.98E-10	2.41E-09	1.48E-11	8.97E-11	5.27E-11	1.57E-10
1946	577127.7	4194616	2.05E-09	6.88E-09	5.37E-09	0.00E+00	1.43E-08	3.19E-10	1.11E-09	8.48E-10	2.28E-09	1.40E-11	8.47E-11	4.97E-11	1.48E-10
1947	577120.1	4194610	1.92E-09	6.45E-09	5.03E-09	0.00E+00	1.34E-08	2.99E-10	1.04E-09	7.95E-10	2.13E-09	1.31E-11	7.94E-11	4.66E-11	1.39E-10
1948	577112.5	4194605	1.79E-09	6.02E-09	4.70E-09	0.00E+00	1.25E-08	2.79E-10	9.71E-10	7.42E-10	1.99E-09	1.22E-11	7.41E-11	4.35E-11	1.30E-10
1949	577104.9	4194600	1.66E-09	5.59E-09	4.36E-09	0.00E+00	1.16E-08	2.59E-10	9.02E-10	6.89E-10	1.85E-09	1.14E-11	6.88E-11	4.04E-11	1.21E-10
1950	577097.3	4194594	1.55E-09	5.20E-09	4.06E-09	0.00E+00	1.08E-08	2.41E-10	8.39E-10	6.41E-10	1.72E-09	1.06E-11	6.40E-11	3.76E-11	1.12E-10
1951	577089.7	4194589	1.43E-09	4.81E-09	3.75E-09	0.00E+00	9.99E-09	2.23E-10	7.75E-10	5.92E-10	1.59E-09	9.77E-12	5.92E-11	3.48E-11	1.04E-10
1952	577082.1	4194583	1.31E-09	4.40E-09	3.44E-09	0.00E+00	9.15E-09	2.04E-10	7.10E-10	5.43E-10	1.46E-09	8.95E-12	5.42E-11	3.18E-11	9.50E-11
1953	577074.6	4194578	1.19E-09	4.00E-09	3.12E-09	0.00E+00	8.30E-09	1.85E-10	6.44E-10	4.92E-10	1.32E-09	8.12E-12	4.92E-11	2.89E-11	8.62E-11
1954	577067	4194572	1.08E-09	3.64E-09	2.84E-09	0.00E+00	7.56E-09	1.69E-10	5.87E-10	4.48E-10	1.20E-09	7.40E-12	4.48E-11	2.63E-11	7.85E-11
1955	577059.4	4194567	9.81E-10	3.30E-09	2.57E-09	0.00E+00	6.86E-09	1.53E-10	5.32E-10	4.07E-10	1.09E-09	6.71E-12	4.06E-11	2.39E-11	7.12E-11
1956	577051.8	4194561	8.85E-10	2.98E-09	2.32E-09	0.00E+00	6.19E-09	1.38E-10	4.80E-10	3.67E-10	9.85E-10	6.05E-12	3.67E-11	2.15E-11	6.43E-11
1957	577044.2	4194556	7.98E-10	2.69E-09	2.10E-09	0.00E+00	5.58E-09	1.24E-10	4.33E-10	3.31E-10	8.89E-10	5.46E-12	3.31E-11	1.94E-11	5.79E-11
1958	577036.6	4194550	7.34E-10	2.47E-09	1.93E-09	0.00E+00	5.13E-09	1.14E-10	3.98E-10	3.04E-10	8.17E-10	5.02E-12	3.04E-11	1.79E-11	5.33E-11
1959	577029	4194545	6.76E-10	2.27E-09	1.77E-09	0.00E+00	4.72E-09	1.05E-10	3.67E-10	2.80E-10	7.52E-10	4.62E-12	2.80E-11	1.64E-11	4.90E-11
1960	577021.4	4194539	6.24E-10	2.10E-09	1.64E-09	0.00E+00	4.36E-09	9.72E-11	3.38E-10	2.59E-10	6.94E-10	4.27E-12	2.58E-11	1.52E-11	4.53E-11
1961	577013.8	4194534	5.78E-10	1.95E-09	1.52E-09	0.00E+00	4.04E-09	9.01E-11	3.14E-10	2.40E-10	6.44E-10	3.95E-12	2.40E-11	1.41E-11	4.20E-11
1962	577006.3	4194528	5.46E-10	1.84E-09	1.43E-09	0.00E+00	3.82E-09	8.50E-11	2.96E-10	2.26E-10	6.07E-10	3.73E-12	2.26E-11	1.33E-11	3.96E-11
1963	576998.7	4194523	5.24E-10	1.77E-09	1.38E-09	0.00E+00	3.67E-09	8.17E-11	2.85E-10	2.17E-10	5.84E-10	3.59E-12	2.17E-11	1.28E-11	3.81E-11
1964	576991.1	4194517	5.12E-10	1.72E-09	1.34E-09	0.00E+00	3.58E-09	7.98E-11	2.78E-10	2.12E-10	5.70E-10	3.50E-12	2.12E-11	1.25E-11	3.72E-11

1965	576983.5	4194512	5.05E-10	1.70E-09	1.33E-09	0.00E+00	3.53E-09	7.87E-11	2.74E-10	2.09E-10	5.62E-10	3.45E-12	2.09E-11	1.23E-11	3.67E-11
1966	576975.9	4194507	5.05E-10	1.70E-09	1.33E-09	0.00E+00	3.53E-09	7.86E-11	2.74E-10	2.09E-10	5.62E-10	3.45E-12	2.09E-11	1.23E-11	3.66E-11
1967	576968.3	4194501	5.11E-10	1.72E-09	1.34E-09	0.00E+00	3.57E-09	7.95E-11	2.77E-10	2.12E-10	5.68E-10	3.49E-12	2.11E-11	1.24E-11	3.71E-11
1968	576960.7	4194496	5.22E-10	1.76E-09	1.37E-09	0.00E+00	3.65E-09	8.14E-11	2.83E-10	2.16E-10	5.81E-10	3.57E-12	2.16E-11	1.27E-11	3.79E-11
1969	576953.1	4194490	5.38E-10	1.81E-09	1.41E-09	0.00E+00	3.76E-09	8.38E-11	2.92E-10	2.23E-10	5.99E-10	3.68E-12	2.23E-11	1.31E-11	3.91E-11
1970	576944	4194475	5.91E-10	1.99E-09	1.55E-09	0.00E+00	4.13E-09	9.21E-11	3.21E-10	2.45E-10	6.58E-10	4.04E-12	2.45E-11	1.44E-11	4.29E-11
1971	577142.9	4194627	2.27E-09	7.64E-09	5.96E-09	0.00E+00	1.59E-08	3.54E-10	1.23E-09	9.42E-10	2.53E-09	1.55E-11	9.41E-11	5.52E-11	1.65E-10
1972	577152.2	4194629	2.44E-09	8.22E-09	6.42E-09	0.00E+00	1.71E-08	3.81E-10	1.33E-09	1.01E-09	2.72E-09	1.67E-11	1.01E-10	5.94E-11	1.77E-10
1973	577161.5	4194631	2.63E-09	8.84E-09	6.90E-09	0.00E+00	1.84E-08	4.09E-10	1.43E-09	1.09E-09	2.92E-09	1.80E-11	1.09E-10	6.39E-11	1.91E-10
1974	577170.9	4194634	2.76E-09	9.30E-09	7.25E-09	0.00E+00	1.93E-08	4.30E-10	1.50E-09	1.15E-09	3.07E-09	1.89E-11	1.14E-10	6.72E-11	2.01E-10
1975	577180.2	4194636	2.88E-09	9.70E-09	7.57E-09	0.00E+00	2.01E-08	4.49E-10	1.56E-09	1.19E-09	3.21E-09	1.97E-11	1.19E-10	7.01E-11	2.09E-10
1976	577189.5	4194638	2.99E-09	1.01E-08	7.86E-09	0.00E+00	2.09E-08	4.67E-10	1.63E-09	1.24E-09	3.33E-09	2.05E-11	1.24E-10	7.29E-11	2.17E-10
1977	577198.8	4194640	3.13E-09	1.05E-08	8.22E-09	0.00E+00	2.19E-08	4.88E-10	1.70E-09	1.30E-09	3.49E-09	2.14E-11	1.30E-10	7.62E-11	2.27E-10
1978	577208.2	4194642	3.29E-09	1.11E-08	8.63E-09	0.00E+00	2.30E-08	5.12E-10	1.78E-09	1.36E-09	3.66E-09	2.25E-11	1.36E-10	8.00E-11	2.39E-10
1979	577217.5	4194645	3.44E-09	1.16E-08	9.03E-09	0.00E+00	2.40E-08	5.36E-10	1.87E-09	1.43E-09	3.83E-09	2.35E-11	1.42E-10	8.36E-11	2.50E-10
1980	577226.8	4194647	3.60E-09	1.21E-08	9.46E-09	0.00E+00	2.52E-08	5.61E-10	1.96E-09	1.49E-09	4.01E-09	2.46E-11	1.49E-10	8.77E-11	2.62E-10
1981	577268.8	4194557	8.93E-09	3.00E-08	2.34E-08	0.00E+00	6.24E-08	1.39E-09	4.84E-09	3.70E-09	9.94E-09	6.10E-11	3.70E-10	2.17E-10	6.48E-10
1982	577259.8	4194558	8.31E-09	2.80E-08	2.18E-08	0.00E+00	5.81E-08	1.29E-09	4.51E-09	3.45E-09	9.25E-09	5.68E-11	3.44E-10	2.02E-10	6.03E-10
1983	577289.9	4194565	9.57E-09	3.22E-08	2.51E-08	0.00E+00	6.69E-08	1.49E-09	5.19E-09	3.97E-09	1.07E-08	6.55E-11	3.97E-10	2.33E-10	6.95E-10
1984	577278	4194566	8.84E-09	2.97E-08	2.32E-08	0.00E+00	6.18E-08	1.38E-09	4.80E-09	3.66E-09	9.84E-09	6.04E-11	3.66E-10	2.15E-10	6.41E-10
1985	577266.2	4194567	8.12E-09	2.73E-08	2.13E-08	0.00E+00	5.67E-08	1.26E-09	4.40E-09	3.37E-09	9.03E-09	5.55E-11	3.36E-10	1.97E-10	5.89E-10
1986	577308.5	4194572	9.90E-09	3.33E-08	2.60E-08	0.00E+00	6.92E-08	1.54E-09	5.37E-09	4.10E-09	1.10E-08	6.77E-11	4.10E-10	2.41E-10	7.18E-10
1987	577296.6	4194573	9.30E-09	3.13E-08	2.44E-08	0.00E+00	6.50E-08	1.45E-09	5.04E-09	3.85E-09	1.03E-08	6.36E-11	3.85E-10	2.26E-10	6.75E-10
1988	577284.7	4194575	8.58E-09	2.89E-08	2.25E-08	0.00E+00	6.00E-08	1.34E-09	4.66E-09	3.56E-09	9.55E-09	5.87E-11	3.56E-10	2.09E-10	6.23E-10
1989	577272.9	4194576	7.93E-09	2.67E-08	2.08E-08	0.00E+00	5.54E-08	1.24E-09	4.30E-09	3.29E-09	8.83E-09	5.42E-11	3.28E-10	1.93E-10	5.76E-10
1990	577261	4194577	7.25E-09	2.44E-08	1.90E-08	0.00E+00	5.07E-08	1.13E-09	3.93E-09	3.01E-09	8.07E-09	4.96E-11	3.00E-10	1.76E-10	5.26E-10
1991	577333.3	4194579	9.93E-09	3.34E-08	2.61E-08	0.00E+00	6.94E-08	1.55E-09	5.39E-09	4.12E-09	1.11E-08	6.79E-11	4.11E-10	2.42E-10	7.21E-10
1992	577321.4	4194580	9.70E-09	3.26E-08	2.55E-08	0.00E+00	6.78E-08	1.51E-09	5.26E-09	4.02E-09	1.08E-08	6.63E-11	4.02E-10	2.36E-10	7.04E-10
1993	577309.4	4194582	9.28E-09	3.12E-08	2.44E-08	0.00E+00	6.49E-08	1.45E-09	5.03E-09	3.85E-09	1.03E-08	6.34E-11	3.84E-10	2.26E-10	6.73E-10
1994	577297.5	4194583	8.71E-09	2.93E-08	2.29E-08	0.00E+00	6.09E-08	1.36E-09	4.73E-09	3.61E-09	9.70E-09	5.96E-11	3.61E-10	2.12E-10	6.32E-10
1995	577285.6	4194584	8.05E-09	2.71E-08	2.11E-08	0.00E+00	5.63E-08	1.25E-09	4.37E-09	3.34E-09	8.96E-09	5.50E-11	3.33E-10	1.96E-10	5.84E-10
1996	577273.6	4194585	7.43E-09	2.50E-08	1.95E-08	0.00E+00	5.20E-08	1.16E-09	4.03E-09	3.08E-09	8.27E-09	5.08E-11	3.08E-10	1.81E-10	5.39E-10
1997	577261.7	4194586	6.80E-09	2.29E-08	1.79E-08	0.00E+00	4.75E-08	1.06E-09	3.69E-09	2.82E-09	7.57E-09	4.65E-11	2.82E-10	1.65E-10	4.94E-10
1998	577252.7	4194587	6.33E-09	2.13E-08	1.66E-08	0.00E+00	4.42E-08	9.86E-10	3.43E-09	2.62E-09	7.04E-09	4.33E-11	2.62E-10	1.54E-10	4.59E-10
1999	577358.2	4194586	9.18E-09	3.09E-08	2.41E-08	0.00E+00	6.42E-08	1.43E-09	4.98E-09	3.81E-09	1.02E-08	6.28E-11	3.80E-10	2.23E-10	6.67E-10
2000	577349.3	4194587	9.35E-09	3.15E-08	2.46E-08	0.00E+00	6.54E-08	1.46E-09	5.08E-09	3.88E-09	1.04E-08	6.40E-11	3.87E-10	2.28E-10	6.79E-10
2001	577340.3	4194588	9.40E-09	3.16E-08	2.47E-08	0.00E+00	6.57E-08	1.46E-09	5.10E-09	3.90E-09	1.05E-08	6.43E-11	3.89E-10	2.29E-10	6.82E-10
2002	577328.3	4194589	9.25E-09	3.11E-08	2.43E-08	0.00E+00	6.47E-08	1.44E-09	5.02E-09	3.84E-09	1.03E-08	6.33E-11	3.83E-10	2.25E-10	6.71E-10
2003	577319.3	4194590	9.02E-09	3.03E-08	2.37E-08	0.00E+00	6.30E-08	1.40E-09	4.89E-09	3.74E-09	1.00E-08	6.17E-11	3.74E-10	2.19E-10	6.55E-10
2004	577310.3	4194591	8.70E-09	2.93E-08	2.28E-08	0.00E+00	6.08E-08	1.36E-09	4.72E-09	3.61E-09	9.68E-09	5.95E-11	3.60E-10	2.12E-10	6.31E-10
2005	577301.3	4194592	8.31E-09	2.80E-08	2.18E-08	0.00E+00	5.81E-08	1.30E-09	4.51E-09	3.45E-09	9.25E-09	5.68E-11	3.44E-10	2.02E-10	6.03E-10
2006	577289.4	4194593	7.72E-09	2.60E-08	2.03E-08	0.00E+00	5.40E-08	1.20E-09	4.19E-09	3.20E-09	8.59E-09	5.28E-11	3.20E-10	1.88E-10	5.60E-10
2007	577280.4	4194594	7.26E-09	2.44E-08	1.91E-08	0.00E+00	5.08E-08	1.13E-09	3.94E-09	3.01E-09	8.08E-09	4.96E-11	3.01E-10	1.77E-10	5.27E-10
2008	577271.4	4194595	6.82E-09	2.30E-08	1.79E-08	0.00E+00	4.77E-08	1.06E-09	3.70E-09	2.83E-09	7.60E-09	4.67E-11	2.83E-10	1.66E-10	4.95E-10
2009	577259.4	4194596	6.23E-09	2.10E-08	1.63E-08	0.00E+00	4.35E-08	9.70E-10	3.38E-09	2.58E-09	6.93E-09	4.26E-11	2.58E-10	1.51E-10	4.52E-10
2010	577250.4	4194597	5.80E-09	1.95E-08	1.52E-08	0.00E+00	4.05E-08	9.03E-10	3.15E-09	2.40E-09	6.45E-09	3.97E-11	2.40E-10	1.41E-10	4.21E-10
2011	577377.3	4194594	8.14E-09	2.74E-08	2.14E-08	0.00E+00	5.69E-08	1.27E-09	4.42E-09	3.37E-09	9.06E-09	5.56E-11	3.37E-10	1.98E-10	5.91E-10
2012	577368.3	4194595	8.45E-09	2.84E-08	2.22E-08	0.00E+00	5.91E-08	1.32E-09	4.58E-09	3.50E-09	9.40E-09	5.78E-11	3.50E-10	2.05E-10	6.13E-10
2013	577359.3	4194596	8.67E-09	2.92E-08	2.28E-08	0.00E+00	6.06E-08	1.35E-09	4.71E-09	3.60E-09	9.65E-09	5.93E-11	3.59E-10	2.11E-10	6.29E-10
2014	577350.3	4194597	8.82E-09	2.97E-08	2.31E-08	0.00E+00	6.16E-08	1.37E-09	4.78E-09	3.66E-09	9.81E-09	6.03E-11	3.65E-10	2.14E-10	6.40E-10
2015	577341.3	4194597	8.85E-09	2.98E-08	2.32E-08	0.00E+00	6.19E-08	1.38E-09	4.80E-09	3.67E-09	9.85E-09	6.05E-11	3.67E-10	2.15E-10	6.43E-10
2016	577332.2	4194598	8.75E-09	2.94E-08	2.30E-08	0.00E+00	6.12E-08	1.36E-09	4.75E-09	3.63E-09	9.74E-09	5.98E-11	3.62E-10	2.13E-10	6.35E-10
2017	577323.2	4194599	8.55E-09	2.88E-08	2.24E-08	0.00E+00	5.98E-08	1.33E-09	4.64E-09	3.54E-09	9.51E-09	5.85E-11	3.54E-10	2.08E-10	6.20E-10
2018	577314.2	4194600	8.26E-09	2.78E-08	2.17E-08	0.00E+00	5.78E-08	1.29E-09	4.48E-09	3.43E-09	9.20E-09	5.65E-11	3.42E-10	2.01E-10	6.00E-10
2019	577305.2	4194601	7.93E-09	2.67E-08	2.08E-08	0.00E+00	5.54E-08	1.24E-09	4.30E-09	3.29E-09	8.82E-09	5.42E-11	3.28E-10	1.93E-10	5.75E-10
2020	577296.2	4194602	7.54E-09	2.54E-08	1.98E-08	0.00E+00	5.27E-08	1.17E-09	4.09E-09	3.13E-09	8.39E-09	5.16E-11	3.12E-10	1.83E-10	5.47E-10
2021	577287.2	4194603	7.11E-09	2.39E-08	1.87E-08	0.00E+00	4.97E-08	1.11E-09	3.86E-09	2.95E-09	7.92E-09	4.86E-11	2.95E-10	1.73E-10	5.16E-10
2022	577278.2	4194604	6.69E-09	2.25E-08	1.76E-08	0.00E+00	4.68E-08	1.04E-09	3.63E-09	2.77E-09	7.45E-09	4.58E-11	2.77E-10	1.63E-10	4.86E-10
2023	577269.2	4194605	6.27E-09	2.11E-08	1.65E-08	0.00E+00	4.39E-08	9.78E-10	3.41E-09	2.60E-09	6.98E-09	4.29E-11	2.60E-10	1.53E-10	4.55E-10
2024	577260.2	4194606	5.85E-09	1.97E-08	1.54E-08	0.00E+00	4.09E-08	9.12E-10	3.18E-09	2.43E-09	6.51E-09	4.00E-11	2.42E-10	1.42E-10	4.25E-10
2025	577251.2	4194607	5.45E-09	1.83E-08	1.43E-08	0.00E+00	3.81E-08	8.49E-10	2.96E-09	2.26E-09	6.06E-09	3.73E-11	2.26E-10	1.33E-10	3.95E-10
2026	577399.5	4194601	6.84E-09	2.30E-08	1.80E-08	0.00E+00	4.78E-08	1.07E-09	3.71E-09	2.83E-09	7.61E-09	4.68E-11	2.83E-10	1.66E-10	4.96E-10
2027	577390.4	4194602	7.23E-09	2.43E-08	1.90E-08	0.00E+00	5.06E-08	1.13E-09	3.93E-09	3.00E-09	8.05E-09	4.95E-11	3.00E-10	1.76E-10	5.25E-10
2028	577381.4	4194603	7.60E-09	2.56E-08	2.00E-08	0.00E+00	5.32E-08	1.18E-09	4.13E-09	3.15E-09	8.46E-09	5.20E-11	3.15E-10	1.85E-10	5.52E-10
2029	577372.4	4194604	7.92E-09	2.67E-08	2.08E-08	0.00E+00	5.54E-08	1.23E-09	4.30E-09	3.29E-09	8.82E-09	5.42E-11	3.28E-10	1.93E-10	5.75E-10
2030	577363.3	4194605	8.14E-09	2.74E-08	2.14E-08	0.00E+00	5.69E-08	1.27E-09	4.42E-09	3.38E-09	9.06E-09	5.57E-11	3.37E-10	1.98E-10	5.91E-10
2031	577354.3	4194606	8.29E-09	2.79E-08	2.18E-08	0.00E+00	5.80E-08	1.29E-09	4.50E-09	3.44E-09	9.23E-09	5.67E-11	3.43E-10	2.02E-10	6.02E-10
2032	577345.3	4194607	8.36E-09	2.81E-08	2.19E-08	0.00E+00	5.84E-08	1.30E-09	4.54E-09	3.47E-09	9.30E-09	5.72E-11	3.46E-10	2.03E-10	6.07E-10
2033	577336.2	4194607	8.29E-09	2.79E-08	2.18E-08	0.00E+00	5.79E-08	1.29E-09	4.50E-09	3.44E-09	9.22E-09	5.67E-11	3.43E-10	2.02E-10	6.01E-10
2034	577327.2	4194608	8.11E-09	2.73E-08	2.13E-08	0.00E+00	5.67E-08	1.26E-09	4.40E-09	3.36E-09	9.03E-09	5.55E-11	3.36E-10	1.97E-10	5.89E-10
2035	577318.1	4194609	7.87E-09	2.65E-08	2.07E-08	0.00E+00	5.50E-08	1.23E-09	4.27E-09	3.26E-09	8.76E-09	5.38E-11	3.26E-10	1.91E-10	5.71E-10
2036	577309.1	4194610	7.56E-09	2.55E-08	1.99E-08	0.00E+00	5.29E-08	1.18E-09	4.10E-09	3.14E-09	8.42E-09	5.17E-11	3.13E-10	1.84E-10	5.49E-10
2037	577300.1	4194611	7.22E-09	2.43E-08	1.90E-08	0.00E+00	5.05E-08	1.12E-09	3.92E-09	2.99E-09	8.04E-09	4.94E-11	2.99E-10	1.76E-10	5.24E-10
2038	577291	4194612	6.84E-09	2.30E-08	1.80E-08	0.00E+00	4.78E-08	1.07E-09	3.71E-09	2.84E-09	7.61E-09	4.68E-11	2.83E-10	1.66E-10	4.96E-10
2039	577282	4194613	6.44E-09	2.17E-08	1.69E-08	0.00E+00	4.50E-08	1.00E-09	3.49E-09	2.67E-09	7.16E-09	4.40E-11	2.67E-10	1.57E-10	4.67E-10
2040	577273	4194614	6.04E-09	2.03E-08	1.59E-08	0.00E+00	4.23E-08	9.42E-10	3.28E-09	2.51E-09	6.73E-09	4.13E-11	2.50E-10	1.47E-10	4.39E-10
2041	577263.9	4194615	5.65E-09	1.90E-08	1.48E-08	0.00E+00	3.95E-08	8.80E-10	3.06E-09	2.34E-09	6.28E-09	3.86E-11	2.34E-10	1.37E-10	4.10E-10
2042	577254.9	4194616	5.25E-09	1.77E-08	1.38E-08	0.00E+00	3.67E-08	8.18E-10	2.85E-09	2.18E-09	5.84E-09	3.59E-11	2.17E-10	1.28E-10	3.81E-10
2043	577245.9	4194617	4.91E-09	1.65E-08	1.29E-08	0.00E+00	3.43E-08	7.65E-10	2.66E-09	2.04E-09	5.47E-09	3.36E-11	2.03E-10	1.19E-10	3.56E-10
2044	577412.9	4194609	5.94E-09	2.00E-08	1.56E-08	0.00E+00	4.15E-08	9.26E-10	3.22E-09	2.46E-09	6.61E-09	4.06E-11	2.46E-10	1.44E-10	4.31E-10
2045	577401	4194610	6.49E-09	2.18E-08	1.70E-08	0.00E+00	4.53E-08	1.01E-09	3.52E-09	2.69E-09	7.22E-09	4.44E-11	2.69E-10	1.58E-10	4.71E-10
2046	577389.1	4194612	6.97E-09	2.35E-08	1.83E-08	0.00E+00	4.87E-08	1.09E-09	3.78E-09	2.89E-09	7.76E-09	4.77E-11	2.89E-10	1.70E-10	5.06E-10

2047	577377.2	4194613	7.40E-09	2.49E-08	1.94E-08	0.00E+00	5.17E-08	1.15E-09	4.02E-09	3.07E-09	8.24E-09	5.06E-11	3.07E-10	1.80E-10	5.37E-10
2048	577365.3	4194614	7.70E-09	2.59E-08	2.02E-08	0.00E+00	5.38E-08	1.20E-09	4.18E-09	3.19E-09	8.57E-09	5.26E-11	3.19E-10	1.87E-10	5.59E-10
2049	577353.4	4194615	7.86E-09	2.64E-08	2.06E-08	0.00E+00	5.49E-08	1.22E-09	4.26E-09	3.26E-09	8.74E-09	5.37E-11	3.25E-10	1.91E-10	5.70E-10
2050	577341.5	4194616	7.87E-09	2.65E-08	2.07E-08	0.00E+00	5.51E-08	1.23E-09	4.27E-09	3.26E-09	8.76E-09	5.39E-11	3.26E-10	1.92E-10	5.72E-10
2051	577329.6	4194618	7.69E-09	2.59E-08	2.02E-08	0.00E+00	5.37E-08	1.20E-09	4.17E-09	3.19E-09	8.56E-09	5.26E-11	3.18E-10	1.87E-10	5.58E-10
2052	577317.7	4194619	7.38E-09	2.48E-08	1.94E-08	0.00E+00	5.16E-08	1.15E-09	4.00E-09	3.06E-09	8.21E-09	5.04E-11	3.06E-10	1.79E-10	5.35E-10
2053	577305.8	4194620	6.99E-09	2.35E-08	1.84E-08	0.00E+00	4.89E-08	1.09E-09	3.79E-09	2.90E-09	7.78E-09	4.78E-11	2.90E-10	1.70E-10	5.08E-10
2054	577293.9	4194621	6.55E-09	2.20E-08	1.72E-08	0.00E+00	4.58E-08	1.02E-09	3.55E-09	2.72E-09	7.29E-09	4.48E-11	2.71E-10	1.59E-10	4.75E-10
2055	577282	4194622	6.07E-09	2.04E-08	1.59E-08	0.00E+00	4.24E-08	9.45E-10	3.29E-09	2.51E-09	6.75E-09	4.15E-11	2.51E-10	1.48E-10	4.40E-10
2056	577270.2	4194624	5.58E-09	1.88E-08	1.47E-08	0.00E+00	3.90E-08	8.69E-10	3.03E-09	2.31E-09	6.21E-09	3.82E-11	2.31E-10	1.36E-10	4.05E-10
2057	577258.3	4194625	5.09E-09	1.71E-08	1.34E-08	0.00E+00	3.56E-08	7.94E-10	2.76E-09	2.11E-09	5.67E-09	3.48E-11	2.11E-10	1.24E-10	3.70E-10
2058	577246.4	4194626	4.66E-09	1.57E-08	1.22E-08	0.00E+00	3.26E-08	7.26E-10	2.53E-09	1.93E-09	5.18E-09	3.19E-11	1.93E-10	1.13E-10	3.38E-10
2059	577429	4194617	5.02E-09	1.69E-08	1.32E-08	0.00E+00	3.51E-08	7.82E-10	2.72E-09	2.08E-09	5.59E-09	3.43E-11	2.08E-10	1.22E-10	3.64E-10
2060	577417.1	4194618	5.52E-09	1.86E-08	1.45E-08	0.00E+00	3.86E-08	8.60E-10	3.00E-09	2.29E-09	6.15E-09	3.78E-11	2.29E-10	1.34E-10	4.01E-10
2061	577405.2	4194619	6.04E-09	2.03E-08	1.59E-08	0.00E+00	4.22E-08	9.40E-10	3.28E-09	2.50E-09	6.72E-09	4.13E-11	2.50E-10	1.47E-10	4.38E-10
2062	577396.2	4194620	6.39E-09	2.15E-08	1.68E-08	0.00E+00	4.47E-08	9.96E-10	3.47E-09	2.65E-09	7.11E-09	4.37E-11	2.65E-10	1.55E-10	4.64E-10
2063	577384.3	4194622	6.83E-09	2.30E-08	1.79E-08	0.00E+00	4.77E-08	1.06E-09	3.70E-09	2.83E-09	7.60E-09	4.67E-11	2.83E-10	1.66E-10	4.95E-10
2064	577372.3	4194623	7.19E-09	2.42E-08	1.89E-08	0.00E+00	5.03E-08	1.12E-09	3.90E-09	2.98E-09	8.01E-09	4.92E-11	2.98E-10	1.75E-10	5.22E-10
2065	577363.4	4194624	7.35E-09	2.47E-08	1.93E-08	0.00E+00	5.14E-08	1.15E-09	3.99E-09	3.05E-09	8.18E-09	5.03E-11	3.04E-10	1.79E-10	5.34E-10
2066	577351.5	4194625	7.47E-09	2.51E-08	1.96E-08	0.00E+00	5.22E-08	1.16E-09	4.05E-09	3.10E-09	8.31E-09	5.11E-11	3.09E-10	1.82E-10	5.42E-10
2067	577339.5	4194626	7.44E-09	2.50E-08	1.95E-08	0.00E+00	5.20E-08	1.16E-09	4.04E-09	3.08E-09	8.28E-09	5.09E-11	3.08E-10	1.81E-10	5.40E-10
2068	577327.6	4194627	7.22E-09	2.43E-08	1.90E-08	0.00E+00	5.05E-08	1.12E-09	3.92E-09	2.99E-09	8.03E-09	4.94E-11	2.99E-10	1.76E-10	5.24E-10
2069	577318.7	4194628	6.98E-09	2.35E-08	1.83E-08	0.00E+00	4.88E-08	1.09E-09	3.79E-09	2.90E-09	7.77E-09	4.78E-11	2.89E-10	1.70E-10	5.07E-10
2070	577306.7	4194629	6.62E-09	2.23E-08	1.74E-08	0.00E+00	4.63E-08	1.03E-09	3.59E-09	2.74E-09	7.37E-09	4.53E-11	2.74E-10	1.61E-10	4.81E-10
2071	577294.8	4194631	6.21E-09	2.09E-08	1.63E-08	0.00E+00	4.34E-08	9.68E-10	3.37E-09	2.57E-09	6.91E-09	4.25E-11	2.57E-10	1.51E-10	4.51E-10
2072	577285.8	4194631	5.87E-09	1.98E-08	1.54E-08	0.00E+00	4.11E-08	9.15E-10	3.19E-09	2.44E-09	6.54E-09	4.02E-11	2.43E-10	1.43E-10	4.26E-10
2073	577273.9	4194633	5.42E-09	1.82E-08	1.42E-08	0.00E+00	3.79E-08	8.44E-10	2.94E-09	2.25E-09	6.03E-09	3.71E-11	2.25E-10	1.32E-10	3.93E-10
2074	577262	4194634	4.96E-09	1.67E-08	1.30E-08	0.00E+00	3.47E-08	7.73E-10	2.69E-09	2.06E-09	5.52E-09	3.39E-11	2.06E-10	1.21E-10	3.60E-10
2075	577253	4194635	4.63E-09	1.56E-08	1.22E-08	0.00E+00	3.24E-08	7.21E-10	2.51E-09	1.92E-09	5.15E-09	3.17E-11	1.92E-10	1.13E-10	3.36E-10
2076	577241.1	4194636	4.24E-09	1.43E-08	1.11E-08	0.00E+00	2.96E-08	6.61E-10	2.30E-09	1.76E-09	4.72E-09	2.90E-11	1.76E-10	1.03E-10	3.08E-10
2077	577440.5	4194622	4.48E-09	1.51E-08	1.18E-08	0.00E+00	3.13E-08	6.98E-10	2.43E-09	1.86E-09	4.99E-09	3.06E-11	1.86E-10	1.09E-10	3.25E-10
2078	577430.2	4194626	4.76E-09	1.60E-08	1.25E-08	0.00E+00	3.33E-08	7.42E-10	2.58E-09	1.97E-09	5.30E-09	3.26E-11	1.97E-10	1.16E-10	3.46E-10
2079	577421.3	4194627	5.11E-09	1.72E-08	1.34E-08	0.00E+00	3.57E-08	7.97E-10	2.77E-09	2.12E-09	5.69E-09	3.50E-11	2.12E-10	1.24E-10	3.71E-10
2080	577409.3	4194629	5.59E-09	1.88E-08	1.47E-08	0.00E+00	3.91E-08	8.71E-10	3.04E-09	2.32E-09	6.23E-09	3.83E-11	2.32E-10	1.36E-10	4.06E-10
2081	577400.3	4194629	5.94E-09	2.00E-08	1.56E-08	0.00E+00	4.15E-08	9.26E-10	3.22E-09	2.46E-09	6.61E-09	4.06E-11	2.46E-10	1.45E-10	4.31E-10
2082	577388.4	4194631	6.37E-09	2.14E-08	1.67E-08	0.00E+00	4.45E-08	9.93E-10	3.46E-09	2.64E-09	7.09E-09	4.36E-11	2.64E-10	1.55E-10	4.63E-10
2083	577379.4	4194632	6.66E-09	2.24E-08	1.75E-08	0.00E+00	4.66E-08	1.04E-09	3.62E-09	2.76E-09	7.42E-09	4.56E-11	2.76E-10	1.62E-10	4.84E-10
2084	577367.4	4194633	6.94E-09	2.34E-08	1.82E-08	0.00E+00	4.85E-08	1.08E-09	3.77E-09	2.88E-09	7.72E-09	4.75E-11	2.87E-10	1.69E-10	5.04E-10
2085	577358.5	4194634	7.05E-09	2.37E-08	1.85E-08	0.00E+00	4.93E-08	1.10E-09	3.82E-09	2.92E-09	7.84E-09	4.82E-11	2.92E-10	1.71E-10	5.12E-10
2086	577346.5	4194635	7.10E-09	2.39E-08	1.87E-08	0.00E+00	4.97E-08	1.11E-09	3.85E-09	2.95E-09	7.91E-09	4.86E-11	2.94E-10	1.73E-10	5.16E-10
2087	577337.5	4194636	7.02E-09	2.36E-08	1.84E-08	0.00E+00	4.91E-08	1.09E-09	3.81E-09	2.91E-09	7.81E-09	4.80E-11	2.91E-10	1.71E-10	5.10E-10
2088	577325.6	4194637	6.78E-09	2.28E-08	1.78E-08	0.00E+00	4.74E-08	1.06E-09	3.68E-09	2.81E-09	7.54E-09	4.64E-11	2.81E-10	1.65E-10	4.92E-10
2089	577316.6	4194638	6.54E-09	2.20E-08	1.72E-08	0.00E+00	4.57E-08	1.02E-09	3.55E-09	2.71E-09	7.27E-09	4.47E-11	2.71E-10	1.59E-10	4.74E-10
2090	577304.6	4194639	6.19E-09	2.08E-08	1.62E-08	0.00E+00	4.32E-08	9.64E-10	3.36E-09	2.56E-09	6.89E-09	4.23E-11	2.56E-10	1.50E-10	4.49E-10
2091	577295.6	4194640	5.90E-09	1.98E-08	1.55E-08	0.00E+00	4.12E-08	9.19E-10	3.20E-09	2.44E-09	6.56E-09	4.03E-11	2.44E-10	1.43E-10	4.28E-10
2092	577283.7	4194641	5.48E-09	1.84E-08	1.44E-08	0.00E+00	3.83E-08	8.54E-10	2.97E-09	2.27E-09	6.10E-09	3.75E-11	2.27E-10	1.33E-10	3.98E-10
2093	577274.7	4194642	5.16E-09	1.74E-08	1.35E-08	0.00E+00	3.61E-08	8.04E-10	2.80E-09	2.14E-09	5.74E-09	3.53E-11	2.14E-10	1.25E-10	3.74E-10
2094	577265.7	4194643	4.83E-09	1.63E-08	1.27E-08	0.00E+00	3.38E-08	7.53E-10	2.62E-09	2.00E-09	5.38E-09	3.31E-11	2.00E-10	1.18E-10	3.51E-10
2095	577253.8	4194644	4.41E-09	1.48E-08	1.16E-08	0.00E+00	3.08E-08	6.87E-10	2.39E-09	1.83E-09	4.91E-09	3.02E-11	1.83E-10	1.07E-10	3.20E-10
2096	577244.8	4194645	4.13E-09	1.39E-08	1.09E-08	0.00E+00	2.89E-08	6.44E-10	2.24E-09	1.71E-09	4.60E-09	2.83E-11	1.71E-10	1.01E-10	3.00E-10

			T2		140	T2L3			T4		
			136	577296.21	4194240.41						
			2.25E-02	7.56E-02	5.90E-02	3.50E-03	1.22E-02	9.31E-03	1.54E-04	9.30E-04	5.46E-04
	UTM X	UTM Y	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3
1	577330.1	4194345	7.57E-03	2.55E-02	1.99E-02	1.18E-03	4.11E-03	3.14E-03	5.18E-05	3.14E-04	1.84E-04
2	577339.3	4194349	5.62E-03	1.89E-02	1.48E-02	8.76E-04	3.05E-03	2.33E-03	3.85E-05	2.33E-04	1.37E-04
3	577348.5	4194353	4.30E-03	1.45E-02	1.13E-02	6.70E-04	2.33E-03	1.78E-03	2.94E-05	1.78E-04	1.05E-04
4	577334.4	4194332	9.18E-03	3.09E-02	2.41E-02	1.43E-03	4.98E-03	3.81E-03	6.28E-05	3.80E-04	2.23E-04
5	577343.9	4194335	6.74E-03	2.27E-02	1.77E-02	1.05E-03	3.66E-03	2.80E-03	4.61E-05	2.79E-04	1.64E-04
6	577353.5	4194338	5.07E-03	1.71E-02	1.33E-02	7.90E-04	2.75E-03	2.10E-03	3.47E-05	2.10E-04	1.23E-04
7	577363	4194341	3.95E-03	1.33E-02	1.04E-02	6.16E-04	2.15E-03	1.64E-03	2.70E-05	1.64E-04	9.62E-05
8	577372.5	4194345	3.17E-03	1.07E-02	8.34E-03	4.95E-04	1.72E-03	1.32E-03	2.17E-05	1.31E-04	7.72E-05
9	577380	4194354	2.51E-03	8.44E-03	6.59E-03	3.91E-04	1.36E-03	1.04E-03	1.72E-05	1.04E-04	6.10E-05
10	577389.5	4194357	2.17E-03	7.29E-03	5.69E-03	3.37E-04	1.18E-03	8.98E-04	1.48E-05	8.97E-05	5.27E-05
11	577346.4	4194326	7.69E-03	2.59E-02	2.02E-02	1.20E-03	4.17E-03	3.19E-03	5.26E-05	3.18E-04	1.87E-04
12	577356	4194329	5.75E-03	1.93E-02	1.51E-02	8.96E-04	3.12E-03	2.38E-03	3.93E-05	2.38E-04	1.40E-04
13	577365.7	4194332	4.47E-03	1.50E-02	1.17E-02	6.96E-04	2.43E-03	1.85E-03	3.06E-05	1.85E-04	1.09E-04
14	577375.4	4194334	3.58E-03	1.21E-02	9.40E-03	5.58E-04	1.94E-03	1.48E-03	2.45E-05	1.48E-04	8.71E-05
15	577383.1	4194344	2.77E-03	9.32E-03	7.27E-03	4.31E-04	1.50E-03	1.15E-03	1.89E-05	1.15E-04	6.74E-05
16	577392.7	4194347	2.37E-03	7.98E-03	6.22E-03	3.69E-04	1.29E-03	9.82E-04	1.62E-05	9.82E-05	5.76E-05
17	577402.4	4194349	2.06E-03	6.92E-03	5.40E-03	3.20E-04	1.12E-03	8.52E-04	1.41E-05	8.52E-05	5.00E-05
18	577412.1	4194352	1.85E-03	6.21E-03	4.85E-03	2.88E-04	1.00E-03	7.65E-04	1.26E-05	7.64E-05	4.49E-05
19	577421.7	4194354	1.66E-03	5.60E-03	4.37E-03	2.59E-04	9.03E-04	6.90E-04	1.14E-05	6.90E-05	4.05E-05
20	577431.4	4194357	1.51E-03	5.07E-03	3.95E-03	2.35E-04	8.17E-04	6.24E-04	1.03E-05	6.23E-05	3.66E-05
21	577441	4194360	1.36E-03	4.59E-03	3.58E-03	2.12E-04	7.39E-04	5.65E-04	9.32E-06	5.64E-05	3.31E-05
22	577450.7	4194362	1.24E-03	4.16E-03	3.25E-03	1.93E-04	6.71E-04	5.13E-04	8.45E-06	5.12E-05	3.01E-05
23	577462.2	4194358	1.16E-03	3.91E-03	3.05E-03	1.81E-04	6.30E-04	4.82E-04	7.94E-06	4.81E-05	2.83E-05
24	577471.9	4194360	1.05E-03	3.53E-03	2.76E-03	1.64E-04	5.70E-04	4.35E-04	7.18E-06	4.35E-05	2.56E-05
25	577481.6	4194363	9.52E-04	3.20E-03	2.50E-03	1.48E-04	5.17E-04	3.95E-04	6.51E-06	3.94E-05	2.32E-05
26	577491.2	4194366	8.67E-04	2.92E-03	2.28E-03	1.35E-04	4.70E-04	3.59E-04	5.93E-06	3.59E-05	2.11E-05
27	577500.9	4194368	7.92E-04	2.67E-03	2.08E-03	1.23E-04	4.30E-04	3.29E-04	5.42E-06	3.28E-05	1.93E-05
28	577510.5	4194371	7.27E-04	2.45E-03	1.91E-03	1.13E-04	3.94E-04	3.01E-04	4.97E-06	3.01E-05	1.77E-05
29	577520.2	4194373	6.67E-04	2.25E-03	1.75E-03	1.04E-04	3.62E-04	2.77E-04	4.56E-06	2.76E-05	1.62E-05
30	577337.1	4194322	1.08E-02	3.63E-02	2.83E-02	1.68E-03	5.85E-03	4.47E-03	7.37E-05	4.47E-04	2.62E-04
31	577348.4	4194317	8.70E-03	2.93E-02	2.29E-02	1.36E-03	4.72E-03	3.61E-03	5.95E-05	3.61E-04	2.12E-04
32	577358.2	4194319	6.51E-03	2.19E-02	1.71E-02	1.01E-03	3.53E-03	2.70E-03	4.45E-05	2.70E-04	1.58E-04
33	577368	4194321	5.04E-03	1.70E-02	1.32E-02	7.86E-04	2.74E-03	2.09E-03	3.45E-05	2.09E-04	1.23E-04
34	577377.8	4194323	4.02E-03	1.35E-02	1.06E-02	6.27E-04	2.18E-03	1.67E-03	2.75E-05	1.67E-04	9.79E-05
35	577386.1	4194332	3.10E-03	1.04E-02	8.15E-03	4.83E-04	1.68E-03	1.29E-03	2.12E-05	1.29E-04	7.55E-05
36	577395.9	4194335	2.62E-03	8.82E-03	6.88E-03	4.08E-04	1.42E-03	1.09E-03	1.79E-05	1.09E-04	6.38E-05
37	577405.6	4194337	2.26E-03	7.62E-03	5.94E-03	3.53E-04	1.23E-03	9.39E-04	1.55E-05	9.38E-05	5.51E-05
38	577415.4	4194339	2.02E-03	6.81E-03	5.31E-03	3.15E-04	1.10E-03	8.39E-04	1.38E-05	8.38E-05	4.92E-05
39	577425.2	4194341	1.81E-03	6.10E-03	4.76E-03	2.82E-04	9.84E-04	7.52E-04	1.24E-05	7.51E-05	4.41E-05
40	577434.1	4194346	1.60E-03	5.38E-03	4.20E-03	2.49E-04	8.68E-04	6.63E-04	1.09E-05	6.62E-05	3.89E-05
41	577436.5	4194336	1.69E-03	5.68E-03	4.43E-03	2.63E-04	9.16E-04	7.00E-04	1.15E-05	6.99E-05	4.11E-05
42	577443.9	4194349	1.44E-03	4.85E-03	3.79E-03	2.25E-04	7.82E-04	5.98E-04	9.86E-06	5.97E-05	3.51E-05
43	577446.3	4194338	1.52E-03	5.11E-03	3.99E-03	2.37E-04	8.24E-04	6.30E-04	1.04E-05	6.29E-05	3.70E-05
44	577453.6	4194351	1.30E-03	4.39E-03	3.43E-03	2.03E-04	7.08E-04	5.41E-04	8.92E-06	5.40E-05	3.17E-05
45	577456	4194340	1.37E-03	4.61E-03	3.60E-03	2.14E-04	7.44E-04	5.68E-04	9.38E-06	5.68E-05	3.34E-05
46	577464.4	4194349	1.20E-03	4.05E-03	3.16E-03	1.88E-04	6.53E-04	4.99E-04	8.23E-06	4.99E-05	2.93E-05
47	577474.1	4194351	1.09E-03	3.66E-03	2.85E-03	1.69E-04	5.89E-04	4.50E-04	7.43E-06	4.50E-05	2.64E-05
48	577483.9	4194353	9.85E-04	3.32E-03	2.59E-03	1.53E-04	5.35E-04	4.08E-04	6.74E-06	4.08E-05	2.40E-05
49	577493.7	4194355	8.97E-04	3.02E-03	2.36E-03	1.40E-04	4.87E-04	3.72E-04	6.14E-06	3.72E-05	2.18E-05
50	577503.5	4194357	8.20E-04	2.76E-03	2.15E-03	1.28E-04	4.45E-04	3.40E-04	5.61E-06	3.40E-05	2.00E-05
51	577513.3	4194359	7.52E-04	2.53E-03	1.98E-03	1.17E-04	4.08E-04	3.12E-04	5.15E-06	3.12E-05	1.83E-05
52	577523.1	4194361	6.92E-04	2.33E-03	1.82E-03	1.08E-04	3.76E-04	2.87E-04	4.73E-06	2.87E-05	1.68E-05
53	577531.3	4194370	6.25E-04	2.10E-03	1.64E-03	9.73E-05	3.39E-04	2.59E-04	4.27E-06	2.59E-05	1.52E-05
54	577534.3	4194356	6.47E-04	2.18E-03	1.70E-03	1.01E-04	3.51E-04	2.68E-04	4.43E-06	2.68E-05	1.57E-05
55	577541.1	4194372	5.75E-04	1.94E-03	1.51E-03	8.96E-05	3.12E-04	2.38E-04	3.93E-06	2.38E-05	1.40E-05
56	577544.1	4194358	5.95E-04	2.00E-03	1.56E-03	9.27E-05	3.23E-04	2.47E-04	4.07E-06	2.46E-05	1.45E-05
57	577550.8	4194374	5.31E-04	1.79E-03	1.39E-03	8.27E-05	2.88E-04	2.20E-04	3.63E-06	2.20E-05	1.29E-05

58	577553.9	4194360	5.48E-04	1.85E-03	1.44E-03	8.54E-05	2.98E-04	2.27E-04	3.75E-06	2.27E-05	1.33E-05
59	577561.1	4194374	4.93E-04	1.66E-03	1.29E-03	7.68E-05	2.68E-04	2.04E-04	3.37E-06	2.04E-05	1.20E-05
60	577563.7	4194362	5.05E-04	1.70E-03	1.33E-03	7.87E-05	2.74E-04	2.09E-04	3.45E-06	2.09E-05	1.23E-05
61	577570.8	4194377	4.56E-04	1.54E-03	1.20E-03	7.11E-05	2.48E-04	1.89E-04	3.12E-06	1.89E-05	1.11E-05
62	577573.5	4194365	4.66E-04	1.57E-03	1.22E-03	7.26E-05	2.53E-04	1.93E-04	3.19E-06	1.93E-05	1.13E-05
63	577580.6	4194379	4.24E-04	1.43E-03	1.11E-03	6.60E-05	2.30E-04	1.76E-04	2.90E-06	1.76E-05	1.03E-05
64	577583.3	4194367	4.31E-04	1.45E-03	1.13E-03	6.72E-05	2.34E-04	1.79E-04	2.95E-06	1.79E-05	1.05E-05
65	577590.3	4194381	3.98E-04	1.34E-03	1.05E-03	6.21E-05	2.16E-04	1.65E-04	2.72E-06	1.65E-05	9.69E-06
66	577593.1	4194369	4.07E-04	1.37E-03	1.07E-03	6.34E-05	2.21E-04	1.69E-04	2.78E-06	1.69E-05	9.90E-06
67	577600	4194383	3.77E-04	1.27E-03	9.89E-04	5.87E-05	2.04E-04	1.56E-04	2.58E-06	1.56E-05	9.16E-06
68	577602.8	4194371	3.85E-04	1.30E-03	1.01E-03	6.00E-05	2.09E-04	1.60E-04	2.63E-06	1.59E-05	9.36E-06
69	577609.8	4194385	3.56E-04	1.20E-03	9.35E-04	5.55E-05	1.93E-04	1.48E-04	2.44E-06	1.48E-05	8.66E-06
70	577612.6	4194373	3.64E-04	1.23E-03	9.57E-04	5.68E-05	1.98E-04	1.51E-04	2.49E-06	1.51E-05	8.87E-06
71	577619.5	4194388	3.37E-04	1.14E-03	8.86E-04	5.26E-05	1.83E-04	1.40E-04	2.31E-06	1.40E-05	8.21E-06
72	577622.4	4194375	3.46E-04	1.16E-03	9.09E-04	5.39E-05	1.88E-04	1.43E-04	2.37E-06	1.43E-05	8.42E-06
73	577340.3	4194307	1.29E-02	4.35E-02	3.40E-02	2.02E-03	7.02E-03	5.36E-03	8.85E-05	5.36E-04	3.15E-04
74	577343.8	4194291	1.37E-02	4.60E-02	3.59E-02	2.13E-03	7.42E-03	5.67E-03	9.35E-05	5.66E-04	3.32E-04
75	577351.9	4194301	9.81E-03	3.30E-02	2.58E-02	1.53E-03	5.32E-03	4.07E-03	6.71E-05	4.06E-04	2.39E-04
76	577355.3	4194284	9.85E-03	3.31E-02	2.59E-02	1.53E-03	5.34E-03	4.08E-03	6.74E-05	4.08E-04	2.40E-04
77	577361.6	4194303	7.39E-03	2.49E-02	1.94E-02	1.15E-03	4.01E-03	3.06E-03	5.05E-05	3.06E-04	1.80E-04
78	577365.1	4194287	7.62E-03	2.57E-02	2.00E-02	1.19E-03	4.14E-03	3.16E-03	5.21E-05	3.16E-04	1.85E-04
79	577371.4	4194305	5.74E-03	1.93E-02	1.51E-02	8.95E-04	3.12E-03	2.38E-03	3.93E-05	2.38E-04	1.40E-04
80	577374.9	4194289	6.05E-03	2.04E-02	1.59E-02	9.43E-04	3.28E-03	2.51E-03	4.14E-05	2.51E-04	1.47E-04
81	577381.2	4194307	4.58E-03	1.54E-02	1.20E-02	7.14E-04	2.49E-03	1.90E-03	3.13E-05	1.90E-04	1.11E-04
82	577384.7	4194291	4.90E-03	1.65E-02	1.29E-02	7.63E-04	2.66E-03	2.03E-03	3.35E-05	2.03E-04	1.19E-04
83	577389.2	4194317	3.50E-03	1.18E-02	9.19E-03	5.45E-04	1.90E-03	1.45E-03	2.39E-05	1.45E-04	8.51E-05
84	577392.7	4194301	3.90E-03	1.31E-02	1.02E-02	6.08E-04	2.12E-03	1.62E-03	2.67E-05	1.62E-04	9.49E-05
85	577399	4194319	2.90E-03	9.76E-03	7.61E-03	4.52E-04	1.57E-03	1.20E-03	1.98E-05	1.20E-04	7.05E-05
86	577402.5	4194303	3.24E-03	1.09E-02	8.50E-03	5.05E-04	1.76E-03	1.34E-03	2.21E-05	1.34E-04	7.88E-05
87	577408.8	4194322	2.50E-03	8.40E-03	6.56E-03	3.89E-04	1.36E-03	1.04E-03	1.71E-05	1.03E-04	6.07E-05
88	577412.3	4194305	2.77E-03	9.32E-03	7.27E-03	4.31E-04	1.50E-03	1.15E-03	1.89E-05	1.15E-04	6.74E-05
89	577418.6	4194324	2.21E-03	7.43E-03	5.80E-03	3.44E-04	1.20E-03	9.15E-04	1.51E-05	9.14E-05	5.37E-05
90	577422.1	4194307	2.40E-03	8.08E-03	6.30E-03	3.74E-04	1.30E-03	9.95E-04	1.64E-05	9.94E-05	5.84E-05
91	577428.4	4194326	1.96E-03	6.59E-03	5.14E-03	3.05E-04	1.06E-03	8.12E-04	1.34E-05	8.11E-05	4.76E-05
92	577431.9	4194309	2.10E-03	7.07E-03	5.51E-03	3.27E-04	1.14E-03	8.70E-04	1.44E-05	8.70E-05	5.11E-05
93	577439.9	4194320	1.80E-03	6.07E-03	4.74E-03	2.81E-04	9.79E-04	7.48E-04	1.23E-05	7.47E-05	4.39E-05
94	577443.4	4194303	1.90E-03	6.40E-03	4.99E-03	2.96E-04	1.03E-03	7.88E-04	1.30E-05	7.87E-05	4.62E-05
95	577449.7	4194322	1.62E-03	5.45E-03	4.25E-03	2.52E-04	8.78E-04	6.71E-04	1.11E-05	6.70E-05	3.94E-05
96	577453.2	4194305	1.68E-03	5.65E-03	4.41E-03	2.62E-04	9.11E-04	6.96E-04	1.15E-05	6.95E-05	4.08E-05
97	577459.5	4194324	1.45E-03	4.87E-03	3.80E-03	2.26E-04	7.86E-04	6.00E-04	9.90E-06	6.00E-05	3.52E-05
98	577463	4194307	1.49E-03	5.02E-03	3.92E-03	2.32E-04	8.09E-04	6.18E-04	1.02E-05	6.18E-05	3.63E-05
99	577467.5	4194334	1.27E-03	4.26E-03	3.33E-03	1.97E-04	6.88E-04	5.25E-04	8.67E-06	5.25E-05	3.08E-05
100	577471	4194318	1.32E-03	4.44E-03	3.46E-03	2.05E-04	7.15E-04	5.46E-04	9.01E-06	5.46E-05	3.21E-05
101	577477.3	4194336	1.14E-03	3.84E-03	3.00E-03	1.78E-04	6.19E-04	4.73E-04	7.80E-06	4.73E-05	2.78E-05
102	577480.8	4194320	1.18E-03	3.99E-03	3.11E-03	1.85E-04	6.43E-04	4.91E-04	8.10E-06	4.91E-05	2.88E-05
103	577487.1	4194338	1.03E-03	3.47E-03	2.71E-03	1.61E-04	5.60E-04	4.28E-04	7.06E-06	4.28E-05	2.51E-05
104	577490.6	4194322	1.07E-03	3.60E-03	2.81E-03	1.67E-04	5.81E-04	4.44E-04	7.32E-06	4.43E-05	2.60E-05
105	577496.9	4194340	9.38E-04	3.16E-03	2.46E-03	1.46E-04	5.09E-04	3.89E-04	6.42E-06	3.89E-05	2.28E-05
106	577500.3	4194324	9.73E-04	3.27E-03	2.55E-03	1.52E-04	5.28E-04	4.03E-04	6.65E-06	4.03E-05	2.37E-05
107	577506.6	4194342	8.56E-04	2.88E-03	2.25E-03	1.33E-04	4.65E-04	3.55E-04	5.85E-06	3.55E-05	2.08E-05
108	577510.1	4194326	8.87E-04	2.99E-03	2.33E-03	1.38E-04	4.81E-04	3.68E-04	6.07E-06	3.67E-05	2.16E-05
109	577516.4	4194344	7.84E-04	2.64E-03	2.06E-03	1.22E-04	4.25E-04	3.25E-04	5.36E-06	3.25E-05	1.91E-05
110	577519.9	4194328	8.11E-04	2.73E-03	2.13E-03	1.26E-04	4.40E-04	3.36E-04	5.55E-06	3.36E-05	1.97E-05
111	577526.2	4194346	7.20E-04	2.42E-03	1.89E-03	1.12E-04	3.91E-04	2.99E-04	4.93E-06	2.98E-05	1.75E-05
112	577529.7	4194330	7.44E-04	2.50E-03	1.95E-03	1.16E-04	4.04E-04	3.09E-04	5.09E-06	3.08E-05	1.81E-05
113	577537.7	4194340	6.70E-04	2.26E-03	1.76E-03	1.04E-04	3.64E-04	2.78E-04	4.58E-06	2.78E-05	1.63E-05
114	577541.2	4194324	6.87E-04	2.31E-03	1.80E-03	1.07E-04	3.73E-04	2.85E-04	4.70E-06	2.84E-05	1.67E-05
115	577547.5	4194342	6.14E-04	2.07E-03	1.61E-03	9.57E-05	3.33E-04	2.55E-04	4.20E-06	2.55E-05	1.49E-05
116	577551	4194326	6.28E-04	2.11E-03	1.65E-03	9.79E-05	3.41E-04	2.61E-04	4.30E-06	2.60E-05	1.53E-05
117	577557.3	4194344	5.64E-04	1.90E-03	1.48E-03	8.79E-05	3.06E-04	2.34E-04	3.86E-06	2.34E-05	1.37E-05
118	577560.8	4194328	5.75E-04	1.93E-03	1.51E-03	8.95E-05	3.12E-04	2.38E-04	3.93E-06	2.38E-05	1.40E-05

119	577567.1	4194347	5.17E-04	1.74E-03	1.36E-03	8.06E-05	2.81E-04	2.14E-04	3.54E-06	2.14E-05	1.26E-05
120	577570.6	4194330	5.26E-04	1.77E-03	1.38E-03	8.20E-05	2.86E-04	2.18E-04	3.60E-06	2.18E-05	1.28E-05
121	577576.9	4194349	4.76E-04	1.60E-03	1.25E-03	7.41E-05	2.58E-04	1.97E-04	3.25E-06	1.97E-05	1.16E-05
122	577580.3	4194332	4.83E-04	1.63E-03	1.27E-03	7.53E-05	2.62E-04	2.00E-04	3.30E-06	2.00E-05	1.18E-05
123	577586.6	4194351	4.42E-04	1.49E-03	1.16E-03	6.88E-05	2.40E-04	1.83E-04	3.02E-06	1.83E-05	1.07E-05
124	577590.1	4194334	4.51E-04	1.52E-03	1.18E-03	7.02E-05	2.45E-04	1.87E-04	3.08E-06	1.87E-05	1.10E-05
125	577596.4	4194353	4.17E-04	1.40E-03	1.09E-03	6.49E-05	2.26E-04	1.73E-04	2.85E-06	1.73E-05	1.01E-05
126	577599.9	4194336	4.24E-04	1.43E-03	1.11E-03	6.61E-05	2.30E-04	1.76E-04	2.90E-06	1.76E-05	1.03E-05
127	577606.2	4194355	3.94E-04	1.33E-03	1.03E-03	6.14E-05	2.14E-04	1.63E-04	2.69E-06	1.63E-05	9.58E-06
128	577609.7	4194338	4.01E-04	1.35E-03	1.05E-03	6.24E-05	2.17E-04	1.66E-04	2.74E-06	1.66E-05	9.74E-06
129	577616	4194357	3.73E-04	1.26E-03	9.80E-04	5.82E-05	2.03E-04	1.55E-04	2.55E-06	1.55E-05	9.08E-06
130	577619.5	4194340	3.81E-04	1.28E-03	1.00E-03	5.93E-05	2.07E-04	1.58E-04	2.60E-06	1.58E-05	9.26E-06
131	577625.8	4194359	3.55E-04	1.19E-03	9.32E-04	5.53E-05	1.93E-04	1.47E-04	2.43E-06	1.47E-05	8.64E-06
132	577629.3	4194343	3.63E-04	1.22E-03	9.54E-04	5.66E-05	1.97E-04	1.51E-04	2.48E-06	1.50E-05	8.84E-06
133	577342.9	4194268	1.30E-02	4.36E-02	3.40E-02	2.02E-03	7.03E-03	5.37E-03	8.86E-05	5.37E-04	3.15E-04
134	577314.3	4194245	1.85E-02	6.24E-02	4.87E-02	2.89E-03	1.01E-02	7.68E-03	1.27E-04	7.68E-04	4.51E-04
135	577305.3	4194243	2.09E-02	7.02E-02	5.48E-02	3.25E-03	1.13E-02	8.65E-03	1.43E-04	8.65E-04	5.08E-04
136	577296.2	4194240	2.25E-02	7.56E-02	5.90E-02	3.50E-03	1.22E-02	9.31E-03	1.54E-04	9.30E-04	5.46E-04
137	577344	4194250	1.01E-02	3.40E-02	2.65E-02	1.57E-03	5.48E-03	4.18E-03	6.90E-05	4.18E-04	2.45E-04
138	577351.4	4194262	9.73E-03	3.28E-02	2.56E-02	1.52E-03	5.28E-03	4.03E-03	6.66E-05	4.03E-04	2.37E-04
139	577316.7	4194235	1.37E-02	4.62E-02	3.61E-02	2.14E-03	7.45E-03	5.70E-03	9.39E-05	5.69E-04	3.34E-04
140	577307.6	4194233	1.50E-02	5.05E-02	3.94E-02	2.34E-03	8.15E-03	6.23E-03	1.03E-04	6.22E-04	3.65E-04
141	577298.6	4194231	1.59E-02	5.35E-02	4.18E-02	2.48E-03	8.63E-03	6.59E-03	1.09E-04	6.59E-04	3.87E-04
142	577346.3	4194241	8.44E-03	2.84E-02	2.22E-02	1.31E-03	4.58E-03	3.50E-03	5.77E-05	3.50E-04	2.05E-04
143	577359.9	4194257	7.56E-03	2.54E-02	1.99E-02	1.18E-03	4.10E-03	3.13E-03	5.17E-05	3.13E-04	1.84E-04
144	577362.5	4194272	7.98E-03	2.68E-02	2.09E-02	1.24E-03	4.33E-03	3.31E-03	5.45E-05	3.30E-04	1.94E-04
145	577319	4194225	1.06E-02	3.57E-02	2.79E-02	1.65E-03	5.76E-03	4.40E-03	7.26E-05	4.39E-04	2.58E-04
146	577310	4194223	1.14E-02	3.84E-02	2.99E-02	1.78E-03	6.18E-03	4.72E-03	7.79E-05	4.72E-04	2.77E-04
147	577301	4194221	1.20E-02	4.03E-02	3.14E-02	1.86E-03	6.49E-03	4.96E-03	8.18E-05	4.96E-04	2.91E-04
148	577352.4	4194234	6.89E-03	2.32E-02	1.81E-02	1.07E-03	3.74E-03	2.86E-03	4.71E-05	2.85E-04	1.68E-04
149	577359.7	4194239	6.39E-03	2.15E-02	1.68E-02	9.96E-04	3.47E-03	2.65E-03	4.37E-05	2.65E-04	1.56E-04
150	577368.6	4194253	6.12E-03	2.06E-02	1.61E-02	9.54E-04	3.32E-03	2.54E-03	4.19E-05	2.54E-04	1.49E-04
151	577370.2	4194262	6.34E-03	2.13E-02	1.67E-02	9.88E-04	3.44E-03	2.63E-03	4.34E-05	2.63E-04	1.54E-04
152	577330.4	4194218	7.92E-03	2.67E-02	2.08E-02	1.23E-03	4.30E-03	3.28E-03	5.42E-05	3.28E-04	1.93E-04
153	577321.4	4194216	8.59E-03	2.89E-02	2.26E-02	1.34E-03	4.66E-03	3.56E-03	5.87E-05	3.56E-04	2.09E-04
154	577312.4	4194213	9.10E-03	3.06E-02	2.39E-02	1.42E-03	4.94E-03	3.77E-03	6.22E-05	3.77E-04	2.21E-04
155	577303.3	4194211	9.42E-03	3.17E-02	2.47E-02	1.47E-03	5.11E-03	3.91E-03	6.44E-05	3.90E-04	2.29E-04
156	577294.3	4194209	9.47E-03	3.19E-02	2.49E-02	1.48E-03	5.14E-03	3.93E-03	6.47E-05	3.92E-04	2.30E-04
157	577285.3	4194207	9.23E-03	3.11E-02	2.42E-02	1.44E-03	5.01E-03	3.83E-03	6.31E-05	3.82E-04	2.25E-04
158	577354.1	4194224	5.93E-03	2.00E-02	1.56E-02	9.24E-04	3.22E-03	2.46E-03	4.06E-05	2.46E-04	1.44E-04
159	577368.4	4194234	5.23E-03	1.76E-02	1.37E-02	8.15E-04	2.84E-03	2.17E-03	3.58E-05	2.17E-04	1.27E-04
160	577377	4194248	5.04E-03	1.70E-02	1.32E-02	7.86E-04	2.74E-03	2.09E-03	3.45E-05	2.09E-04	1.23E-04
161	577380.1	4194265	5.29E-03	1.78E-02	1.39E-02	8.25E-04	2.87E-03	2.20E-03	3.62E-05	2.19E-04	1.29E-04
162	577323.8	4194206	7.07E-03	2.38E-02	1.86E-02	1.10E-03	3.84E-03	2.93E-03	4.83E-05	2.93E-04	1.72E-04
163	577314.7	4194204	7.43E-03	2.50E-02	1.95E-02	1.16E-03	4.03E-03	3.08E-03	5.08E-05	3.08E-04	1.81E-04
164	577305.7	4194202	7.61E-03	2.56E-02	2.00E-02	1.19E-03	4.13E-03	3.15E-03	5.20E-05	3.15E-04	1.85E-04
165	577296.7	4194199	7.58E-03	2.55E-02	1.99E-02	1.18E-03	4.11E-03	3.14E-03	5.18E-05	3.14E-04	1.84E-04
166	577287.6	4194197	7.35E-03	2.48E-02	1.93E-02	1.15E-03	3.99E-03	3.05E-03	5.03E-05	3.05E-04	1.79E-04
167	577356.1	4194213	5.13E-03	1.73E-02	1.35E-02	7.99E-04	2.78E-03	2.13E-03	3.51E-05	2.12E-04	1.25E-04
168	577370	4194224	4.63E-03	1.56E-02	1.22E-02	7.22E-04	2.51E-03	1.92E-03	3.17E-05	1.92E-04	1.13E-04
169	577385.4	4194242	4.22E-03	1.42E-02	1.11E-02	6.58E-04	2.29E-03	1.75E-03	2.89E-05	1.75E-04	1.03E-04
170	577388.5	4194259	4.42E-03	1.49E-02	1.16E-02	6.88E-04	2.40E-03	1.83E-03	3.02E-05	1.83E-04	1.07E-04
171	577391.5	4194276	4.40E-03	1.48E-02	1.16E-02	6.86E-04	2.39E-03	1.83E-03	3.01E-05	1.82E-04	1.07E-04
172	577326.1	4194196	5.90E-03	1.98E-02	1.55E-02	9.19E-04	3.20E-03	2.45E-03	4.03E-05	2.44E-04	1.43E-04
173	577317.1	4194194	6.15E-03	2.07E-02	1.61E-02	9.58E-04	3.34E-03	2.55E-03	4.20E-05	2.55E-04	1.50E-04
174	577308.1	4194192	6.25E-03	2.10E-02	1.64E-02	9.74E-04	3.39E-03	2.59E-03	4.27E-05	2.59E-04	1.52E-04
175	577299	4194190	6.20E-03	2.09E-02	1.63E-02	9.65E-04	3.36E-03	2.57E-03	4.24E-05	2.57E-04	1.51E-04
176	577290	4194187	6.02E-03	2.03E-02	1.58E-02	9.38E-04	3.27E-03	2.50E-03	4.12E-05	2.49E-04	1.46E-04
177	577358.1	4194204	4.46E-03	1.50E-02	1.17E-02	6.95E-04	2.42E-03	1.85E-03	3.05E-05	1.85E-04	1.08E-04
178	577371.8	4194213	4.10E-03	1.38E-02	1.08E-02	6.38E-04	2.22E-03	1.70E-03	2.80E-05	1.70E-04	9.96E-05
179	577385.5	4194223	3.67E-03	1.24E-02	9.65E-03	5.72E-04	1.99E-03	1.52E-03	2.51E-05	1.52E-04	8.94E-05

180	577393.9	4194237	3.58E-03	1.20E-02	9.40E-03	5.58E-04	1.94E-03	1.48E-03	2.45E-05	1.48E-04	8.71E-05
181	577396.8	4194253	3.75E-03	1.26E-02	9.83E-03	5.83E-04	2.03E-03	1.55E-03	2.56E-05	1.55E-04	9.11E-05
182	577399.8	4194270	3.78E-03	1.27E-02	9.92E-03	5.88E-04	2.05E-03	1.57E-03	2.58E-05	1.56E-04	9.19E-05
183	577402.8	4194287	3.58E-03	1.21E-02	9.41E-03	5.58E-04	1.94E-03	1.49E-03	2.45E-05	1.48E-04	8.72E-05
184	577360.2	4194194	3.90E-03	1.31E-02	1.02E-02	6.08E-04	2.12E-03	1.62E-03	2.67E-05	1.62E-04	9.49E-05
185	577373.8	4194203	3.63E-03	1.22E-02	9.54E-03	5.66E-04	1.97E-03	1.51E-03	2.48E-05	1.51E-04	8.84E-05
186	577387.3	4194213	3.30E-03	1.11E-02	8.68E-03	5.15E-04	1.79E-03	1.37E-03	2.26E-05	1.37E-04	8.04E-05
187	577402.3	4194231	3.07E-03	1.03E-02	8.06E-03	4.78E-04	1.67E-03	1.27E-03	2.10E-05	1.27E-04	7.46E-05
188	577405.3	4194248	3.22E-03	1.08E-02	8.45E-03	5.01E-04	1.75E-03	1.33E-03	2.20E-05	1.33E-04	7.82E-05
189	577408.2	4194264	3.26E-03	1.10E-02	8.56E-03	5.08E-04	1.77E-03	1.35E-03	2.23E-05	1.35E-04	7.93E-05
190	577411.1	4194280	3.15E-03	1.06E-02	8.28E-03	4.91E-04	1.71E-03	1.31E-03	2.16E-05	1.31E-04	7.67E-05
191	577387	4194202	3.02E-03	1.02E-02	7.93E-03	4.71E-04	1.64E-03	1.25E-03	2.07E-05	1.25E-04	7.35E-05
192	577394.4	4194207	2.87E-03	9.67E-03	7.54E-03	4.48E-04	1.56E-03	1.19E-03	1.96E-05	1.19E-04	6.99E-05
193	577401.9	4194212	2.72E-03	9.17E-03	7.15E-03	4.24E-04	1.48E-03	1.13E-03	1.86E-05	1.13E-04	6.62E-05
194	577410.9	4194227	2.67E-03	8.98E-03	7.01E-03	4.16E-04	1.45E-03	1.11E-03	1.83E-05	1.11E-04	6.49E-05
195	577412.6	4194236	2.75E-03	9.24E-03	7.21E-03	4.28E-04	1.49E-03	1.14E-03	1.88E-05	1.14E-04	6.68E-05
196	577414.2	4194245	2.80E-03	9.43E-03	7.36E-03	4.37E-04	1.52E-03	1.16E-03	1.92E-05	1.16E-04	6.82E-05
197	577415.8	4194254	2.83E-03	9.53E-03	7.43E-03	4.41E-04	1.54E-03	1.17E-03	1.94E-05	1.17E-04	6.89E-05
198	577417.4	4194263	2.83E-03	9.53E-03	7.44E-03	4.41E-04	1.54E-03	1.17E-03	1.94E-05	1.17E-04	6.89E-05
199	577419	4194272	2.80E-03	9.42E-03	7.35E-03	4.36E-04	1.52E-03	1.16E-03	1.91E-05	1.16E-04	6.81E-05
200	577420.6	4194281	2.73E-03	9.18E-03	7.16E-03	4.25E-04	1.48E-03	1.13E-03	1.86E-05	1.13E-04	6.63E-05
201	577422.2	4194290	2.63E-03	8.84E-03	6.90E-03	4.09E-04	1.43E-03	1.09E-03	1.80E-05	1.09E-04	6.39E-05
202	577351.9	4194165	3.11E-03	1.05E-02	8.17E-03	4.85E-04	1.69E-03	1.29E-03	2.13E-05	1.29E-04	7.57E-05
203	577403.2	4194202	2.49E-03	8.39E-03	6.54E-03	3.88E-04	1.35E-03	1.03E-03	1.70E-05	1.03E-04	6.06E-05
204	577410.5	4194207	2.38E-03	8.00E-03	6.24E-03	3.70E-04	1.29E-03	9.85E-04	1.63E-05	9.84E-05	5.78E-05
205	577419.4	4194221	2.33E-03	7.86E-03	6.13E-03	3.64E-04	1.27E-03	9.68E-04	1.60E-05	9.67E-05	5.68E-05
206	577422.5	4194239	2.45E-03	8.24E-03	6.43E-03	3.82E-04	1.33E-03	1.02E-03	1.68E-05	1.01E-04	5.96E-05
207	577425.7	4194257	2.49E-03	8.38E-03	6.54E-03	3.88E-04	1.35E-03	1.03E-03	1.70E-05	1.03E-04	6.05E-05
208	577428.9	4194274	2.43E-03	8.18E-03	6.38E-03	3.79E-04	1.32E-03	1.01E-03	1.66E-05	1.01E-04	5.91E-05
209	577432	4194292	2.28E-03	7.67E-03	5.98E-03	3.55E-04	1.24E-03	9.45E-04	1.56E-05	9.44E-05	5.54E-05
210	577344.6	4194160	3.10E-03	1.04E-02	8.13E-03	4.82E-04	1.68E-03	1.28E-03	2.12E-05	1.28E-04	7.53E-05
211	577335.6	4194157	3.19E-03	1.07E-02	8.36E-03	4.96E-04	1.73E-03	1.32E-03	2.18E-05	1.32E-04	7.75E-05
212	577326.6	4194155	3.23E-03	1.09E-02	8.48E-03	5.03E-04	1.75E-03	1.34E-03	2.21E-05	1.34E-04	7.86E-05
213	577317.5	4194153	3.23E-03	1.09E-02	8.48E-03	5.03E-04	1.75E-03	1.34E-03	2.21E-05	1.34E-04	7.85E-05
214	577308.5	4194151	3.19E-03	1.07E-02	8.37E-03	4.97E-04	1.73E-03	1.32E-03	2.18E-05	1.32E-04	7.76E-05
215	577299.5	4194149	3.11E-03	1.05E-02	8.17E-03	4.85E-04	1.69E-03	1.29E-03	2.13E-05	1.29E-04	7.57E-05
216	577354.2	4194155	2.74E-03	9.23E-03	7.20E-03	4.27E-04	1.49E-03	1.14E-03	1.88E-05	1.14E-04	6.67E-05
217	577368.6	4194165	2.70E-03	9.08E-03	7.08E-03	4.20E-04	1.46E-03	1.12E-03	1.84E-05	1.12E-04	6.56E-05
218	577427.8	4194216	2.06E-03	6.93E-03	5.40E-03	3.21E-04	1.12E-03	8.53E-04	1.41E-05	8.52E-05	5.01E-05
219	577430.9	4194233	2.16E-03	7.26E-03	5.66E-03	3.36E-04	1.17E-03	8.94E-04	1.47E-05	8.93E-05	5.25E-05
220	577434	4194251	2.20E-03	7.41E-03	5.78E-03	3.43E-04	1.19E-03	9.13E-04	1.51E-05	9.12E-05	5.36E-05
221	577437.2	4194268	2.17E-03	7.31E-03	5.70E-03	3.38E-04	1.18E-03	9.00E-04	1.48E-05	8.99E-05	5.28E-05
222	577440.3	4194286	2.06E-03	6.95E-03	5.42E-03	3.22E-04	1.12E-03	8.56E-04	1.41E-05	8.55E-05	5.02E-05
223	577338	4194148	2.79E-03	9.38E-03	7.32E-03	4.34E-04	1.51E-03	1.16E-03	1.91E-05	1.15E-04	6.78E-05
224	577328.9	4194145	2.81E-03	9.47E-03	7.39E-03	4.39E-04	1.53E-03	1.17E-03	1.92E-05	1.17E-04	6.85E-05
225	577319.9	4194143	2.81E-03	9.45E-03	7.37E-03	4.37E-04	1.52E-03	1.16E-03	1.92E-05	1.16E-04	6.83E-05
226	577310.9	4194141	2.77E-03	9.32E-03	7.27E-03	4.31E-04	1.50E-03	1.15E-03	1.89E-05	1.15E-04	6.74E-05
227	577301.8	4194139	2.71E-03	9.11E-03	7.11E-03	4.22E-04	1.47E-03	1.12E-03	1.85E-05	1.12E-04	6.59E-05
228	577356.5	4194145	2.43E-03	8.18E-03	6.39E-03	3.79E-04	1.32E-03	1.01E-03	1.66E-05	1.01E-04	5.92E-05
229	577370.7	4194156	2.41E-03	8.11E-03	6.33E-03	3.76E-04	1.31E-03	1.00E-03	1.65E-05	9.99E-05	5.86E-05
230	577384.9	4194166	2.31E-03	7.78E-03	6.07E-03	3.60E-04	1.25E-03	9.58E-04	1.58E-05	9.57E-05	5.62E-05
231	577436.3	4194210	1.83E-03	6.14E-03	4.79E-03	2.84E-04	9.91E-04	7.57E-04	1.25E-05	7.56E-05	4.44E-05
232	577439.3	4194228	1.91E-03	6.43E-03	5.01E-03	2.98E-04	1.04E-03	7.92E-04	1.31E-05	7.91E-05	4.65E-05
233	577442.4	4194245	1.95E-03	6.58E-03	5.13E-03	3.05E-04	1.06E-03	8.10E-04	1.34E-05	8.10E-05	4.75E-05
234	577445.5	4194262	1.95E-03	6.55E-03	5.11E-03	3.03E-04	1.06E-03	8.06E-04	1.33E-05	8.06E-05	4.73E-05
235	577448.6	4194279	1.87E-03	6.31E-03	4.92E-03	2.92E-04	1.02E-03	7.77E-04	1.28E-05	7.77E-05	4.56E-05
236	577340.3	4194138	2.45E-03	8.26E-03	6.44E-03	3.82E-04	1.33E-03	1.02E-03	1.68E-05	1.02E-04	5.97E-05
237	577331.3	4194136	2.47E-03	8.32E-03	6.49E-03	3.85E-04	1.34E-03	1.02E-03	1.69E-05	1.02E-04	6.01E-05
238	577322.3	4194134	2.46E-03	8.29E-03	6.46E-03	3.84E-04	1.34E-03	1.02E-03	1.68E-05	1.02E-04	5.99E-05
239	577313.2	4194131	2.43E-03	8.17E-03	6.37E-03	3.78E-04	1.32E-03	1.01E-03	1.66E-05	1.01E-04	5.90E-05
240	577304.2	4194129	2.37E-03	7.99E-03	6.24E-03	3.70E-04	1.29E-03	9.84E-04	1.62E-05	9.84E-05	5.78E-05

241	577358.8	4194135	2.17E-03	7.29E-03	5.69E-03	3.38E-04	1.18E-03	8.99E-04	1.48E-05	8.98E-05	5.27E-05
242	577372.8	4194146	2.16E-03	7.28E-03	5.68E-03	3.37E-04	1.17E-03	8.97E-04	1.48E-05	8.97E-05	5.27E-05
243	577386.9	4194156	2.10E-03	7.05E-03	5.50E-03	3.27E-04	1.14E-03	8.69E-04	1.43E-05	8.68E-05	5.10E-05
244	577401	4194166	1.98E-03	6.66E-03	5.20E-03	3.08E-04	1.07E-03	8.21E-04	1.35E-05	8.20E-05	4.82E-05
245	577415.1	4194176	1.85E-03	6.24E-03	4.87E-03	2.89E-04	1.01E-03	7.68E-04	1.27E-05	7.68E-05	4.51E-05
246	577447.8	4194222	1.70E-03	5.72E-03	4.46E-03	2.65E-04	9.23E-04	7.05E-04	1.16E-05	7.04E-05	4.14E-05
247	577450.8	4194239	1.74E-03	5.87E-03	4.58E-03	2.72E-04	9.46E-04	7.23E-04	1.19E-05	7.23E-05	4.24E-05
248	577453.8	4194256	1.75E-03	5.88E-03	4.59E-03	2.72E-04	9.48E-04	7.24E-04	1.20E-05	7.24E-05	4.25E-05
249	577456.9	4194273	1.70E-03	5.73E-03	4.47E-03	2.65E-04	9.24E-04	7.06E-04	1.16E-05	7.05E-05	4.14E-05
250	577459.9	4194290	1.61E-03	5.43E-03	4.24E-03	2.52E-04	8.76E-04	6.69E-04	1.10E-05	6.69E-05	3.93E-05
251	577342.7	4194128	2.17E-03	7.32E-03	5.71E-03	3.39E-04	1.18E-03	9.02E-04	1.49E-05	9.01E-05	5.29E-05
252	577333.7	4194126	2.19E-03	7.36E-03	5.74E-03	3.41E-04	1.19E-03	9.06E-04	1.50E-05	9.06E-05	5.32E-05
253	577324.6	4194124	2.18E-03	7.32E-03	5.71E-03	3.39E-04	1.18E-03	9.02E-04	1.49E-05	9.01E-05	5.29E-05
254	577315.6	4194122	2.15E-03	7.22E-03	5.63E-03	3.34E-04	1.16E-03	8.90E-04	1.47E-05	8.89E-05	5.22E-05
255	577306.6	4194119	2.10E-03	7.06E-03	5.51E-03	3.27E-04	1.14E-03	8.70E-04	1.44E-05	8.69E-05	5.10E-05
256	577361.6	4194126	1.95E-03	6.55E-03	5.11E-03	3.03E-04	1.06E-03	8.07E-04	1.33E-05	8.06E-05	4.73E-05
257	577369.1	4194132	1.96E-03	6.58E-03	5.14E-03	3.05E-04	1.06E-03	8.11E-04	1.34E-05	8.10E-05	4.76E-05
258	577376.6	4194137	1.95E-03	6.56E-03	5.12E-03	3.04E-04	1.06E-03	8.08E-04	1.33E-05	8.07E-05	4.74E-05
259	577384.1	4194142	1.93E-03	6.49E-03	5.06E-03	3.00E-04	1.05E-03	7.99E-04	1.32E-05	7.99E-05	4.69E-05
260	577391.6	4194148	1.89E-03	6.37E-03	4.97E-03	2.95E-04	1.03E-03	7.84E-04	1.29E-05	7.84E-05	4.60E-05
261	577399.1	4194153	1.84E-03	6.21E-03	4.84E-03	2.87E-04	1.00E-03	7.65E-04	1.26E-05	7.64E-05	4.49E-05
262	577406.6	4194159	1.79E-03	6.02E-03	4.70E-03	2.79E-04	9.71E-04	7.42E-04	1.22E-05	7.41E-05	4.35E-05
263	577414.1	4194164	1.73E-03	5.82E-03	4.54E-03	2.70E-04	9.39E-04	7.17E-04	1.18E-05	7.17E-05	4.21E-05
264	577421.6	4194169	1.67E-03	5.63E-03	4.39E-03	2.60E-04	9.07E-04	6.93E-04	1.14E-05	6.92E-05	4.07E-05
265	577429.1	4194175	1.61E-03	5.43E-03	4.23E-03	2.51E-04	8.75E-04	6.68E-04	1.10E-05	6.68E-05	3.92E-05
266	577436.6	4194180	1.55E-03	5.22E-03	4.07E-03	2.42E-04	8.41E-04	6.43E-04	1.06E-05	6.42E-05	3.77E-05
267	577456.5	4194218	1.53E-03	5.14E-03	4.01E-03	2.38E-04	8.29E-04	6.34E-04	1.05E-05	6.33E-05	3.72E-05
268	577458.1	4194227	1.55E-03	5.23E-03	4.08E-03	2.42E-04	8.43E-04	6.44E-04	1.06E-05	6.43E-05	3.78E-05
269	577459.8	4194237	1.57E-03	5.28E-03	4.12E-03	2.44E-04	8.51E-04	6.50E-04	1.07E-05	6.50E-05	3.82E-05
270	577461.4	4194246	1.58E-03	5.30E-03	4.14E-03	2.46E-04	8.55E-04	6.53E-04	1.08E-05	6.53E-05	3.83E-05
271	577463	4194255	1.57E-03	5.29E-03	4.13E-03	2.45E-04	8.53E-04	6.52E-04	1.07E-05	6.51E-05	3.82E-05
272	577464.6	4194264	1.56E-03	5.24E-03	4.09E-03	2.43E-04	8.45E-04	6.46E-04	1.06E-05	6.45E-05	3.79E-05
273	577466.3	4194273	1.53E-03	5.15E-03	4.02E-03	2.38E-04	8.31E-04	6.35E-04	1.05E-05	6.34E-05	3.72E-05
274	577467.9	4194282	1.49E-03	5.03E-03	3.92E-03	2.33E-04	8.11E-04	6.19E-04	1.02E-05	6.19E-05	3.63E-05
275	577469.5	4194291	1.45E-03	4.87E-03	3.80E-03	2.26E-04	7.86E-04	6.00E-04	9.90E-06	6.00E-05	3.52E-05
276	577471.1	4194300	1.39E-03	4.69E-03	3.66E-03	2.17E-04	7.56E-04	5.78E-04	9.53E-06	5.77E-05	3.39E-05
277	577354.1	4194121	1.91E-03	6.44E-03	5.03E-03	2.98E-04	1.04E-03	7.94E-04	1.31E-05	7.93E-05	4.66E-05
278	577345.1	4194119	1.94E-03	6.52E-03	5.09E-03	3.02E-04	1.05E-03	8.04E-04	1.33E-05	8.03E-05	4.71E-05
279	577336	4194116	1.94E-03	6.55E-03	5.11E-03	3.03E-04	1.06E-03	8.06E-04	1.33E-05	8.06E-05	4.73E-05
280	577327	4194114	1.93E-03	6.51E-03	5.08E-03	3.01E-04	1.05E-03	8.02E-04	1.32E-05	8.01E-05	4.70E-05
281	577318	4194112	1.91E-03	6.42E-03	5.01E-03	2.97E-04	1.04E-03	7.91E-04	1.30E-05	7.90E-05	4.64E-05
282	577308.9	4194110	1.87E-03	6.28E-03	4.90E-03	2.91E-04	1.01E-03	7.74E-04	1.28E-05	7.73E-05	4.54E-05
283	577363.9	4194116	1.75E-03	5.90E-03	4.60E-03	2.73E-04	9.51E-04	7.27E-04	1.20E-05	7.26E-05	4.26E-05
284	577371.3	4194122	1.77E-03	5.95E-03	4.64E-03	2.76E-04	9.60E-04	7.33E-04	1.21E-05	7.33E-05	4.30E-05
285	577378.7	4194127	1.77E-03	5.95E-03	4.64E-03	2.75E-04	9.59E-04	7.33E-04	1.21E-05	7.32E-05	4.30E-05
286	577386.1	4194132	1.75E-03	5.91E-03	4.61E-03	2.73E-04	9.52E-04	7.27E-04	1.20E-05	7.27E-05	4.27E-05
287	577393.5	4194138	1.73E-03	5.82E-03	4.54E-03	2.69E-04	9.38E-04	7.17E-04	1.18E-05	7.16E-05	4.21E-05
288	577400.9	4194143	1.69E-03	5.70E-03	4.45E-03	2.64E-04	9.19E-04	7.02E-04	1.16E-05	7.01E-05	4.12E-05
289	577408.3	4194148	1.65E-03	5.55E-03	4.33E-03	2.57E-04	8.95E-04	6.84E-04	1.13E-05	6.83E-05	4.01E-05
290	577415.7	4194154	1.60E-03	5.39E-03	4.20E-03	2.49E-04	8.68E-04	6.64E-04	1.09E-05	6.63E-05	3.89E-05
291	577423.1	4194159	1.55E-03	5.22E-03	4.07E-03	2.42E-04	8.41E-04	6.43E-04	1.06E-05	6.42E-05	3.77E-05
292	577430.5	4194164	1.50E-03	5.05E-03	3.94E-03	2.34E-04	8.14E-04	6.22E-04	1.03E-05	6.21E-05	3.65E-05
293	577437.9	4194170	1.45E-03	4.87E-03	3.80E-03	2.25E-04	7.85E-04	6.00E-04	9.89E-06	5.99E-05	3.52E-05
294	577445.3	4194175	1.39E-03	4.69E-03	3.66E-03	2.17E-04	7.56E-04	5.78E-04	9.53E-06	5.77E-05	3.39E-05
295	577452.7	4194180	1.34E-03	4.51E-03	3.52E-03	2.09E-04	7.27E-04	5.55E-04	9.16E-06	5.55E-05	3.26E-05
296	577464.9	4194213	1.38E-03	4.63E-03	3.61E-03	2.14E-04	7.47E-04	5.70E-04	9.41E-06	5.70E-05	3.35E-05
297	577466.5	4194222	1.40E-03	4.71E-03	3.67E-03	2.18E-04	7.59E-04	5.80E-04	9.56E-06	5.79E-05	3.40E-05
298	577468.1	4194231	1.41E-03	4.76E-03	3.72E-03	2.20E-04	7.68E-04	5.87E-04	9.68E-06	5.86E-05	3.44E-05
299	577469.7	4194240	1.42E-03	4.79E-03	3.74E-03	2.22E-04	7.73E-04	5.91E-04	9.74E-06	5.90E-05	3.46E-05
300	577471.3	4194249	1.43E-03	4.80E-03	3.74E-03	2.22E-04	7.74E-04	5.91E-04	9.75E-06	5.91E-05	3.47E-05
301	577472.9	4194258	1.42E-03	4.77E-03	3.72E-03	2.21E-04	7.69E-04	5.88E-04	9.70E-06	5.87E-05	3.45E-05

302	577474.5	4194267	1.40E-03	4.72E-03	3.68E-03	2.18E-04	7.60E-04	5.81E-04	9.58E-06	5.80E-05	3.41E-05
303	577476.1	4194275	1.38E-03	4.63E-03	3.61E-03	2.14E-04	7.46E-04	5.70E-04	9.41E-06	5.70E-05	3.35E-05
304	577477.7	4194284	1.34E-03	4.51E-03	3.52E-03	2.09E-04	7.28E-04	5.56E-04	9.17E-06	5.56E-05	3.26E-05
305	577479.3	4194293	1.30E-03	4.37E-03	3.41E-03	2.02E-04	7.05E-04	5.39E-04	8.89E-06	5.38E-05	3.16E-05
306	577480.9	4194302	1.25E-03	4.21E-03	3.29E-03	1.95E-04	6.79E-04	5.19E-04	8.56E-06	5.18E-05	3.04E-05
307	577356.5	4194111	1.72E-03	5.79E-03	4.52E-03	2.68E-04	9.34E-04	7.13E-04	1.18E-05	7.13E-05	4.19E-05
308	577347.4	4194109	1.74E-03	5.84E-03	4.56E-03	2.71E-04	9.42E-04	7.20E-04	1.19E-05	7.19E-05	4.22E-05
309	577338.4	4194107	1.74E-03	5.85E-03	4.56E-03	2.71E-04	9.43E-04	7.21E-04	1.19E-05	7.20E-05	4.23E-05
310	577329.4	4194104	1.73E-03	5.81E-03	4.54E-03	2.69E-04	9.37E-04	7.16E-04	1.18E-05	7.16E-05	4.20E-05
311	577320.3	4194102	1.70E-03	5.73E-03	4.47E-03	2.65E-04	9.24E-04	7.06E-04	1.17E-05	7.06E-05	4.14E-05
312	577311.3	4194100	1.67E-03	5.61E-03	4.38E-03	2.60E-04	9.05E-04	6.91E-04	1.14E-05	6.91E-05	4.06E-05
313	577366.2	4194107	1.59E-03	5.34E-03	4.16E-03	2.47E-04	8.61E-04	6.58E-04	1.08E-05	6.57E-05	3.86E-05
314	577373.5	4194112	1.60E-03	5.40E-03	4.21E-03	2.50E-04	8.71E-04	6.65E-04	1.10E-05	6.65E-05	3.90E-05
315	577380.8	4194117	1.61E-03	5.41E-03	4.22E-03	2.51E-04	8.73E-04	6.67E-04	1.10E-05	6.66E-05	3.91E-05
316	577388.1	4194122	1.60E-03	5.39E-03	4.20E-03	2.49E-04	8.69E-04	6.64E-04	1.09E-05	6.63E-05	3.89E-05
317	577395.4	4194128	1.58E-03	5.33E-03	4.16E-03	2.47E-04	8.59E-04	6.56E-04	1.08E-05	6.56E-05	3.85E-05
318	577402.7	4194133	1.56E-03	5.24E-03	4.09E-03	2.43E-04	8.45E-04	6.45E-04	1.06E-05	6.45E-05	3.79E-05
319	577410.1	4194138	1.52E-03	5.12E-03	4.00E-03	2.37E-04	8.26E-04	6.31E-04	1.04E-05	6.30E-05	3.70E-05
320	577417.4	4194143	1.48E-03	4.99E-03	3.89E-03	2.31E-04	8.04E-04	6.14E-04	1.01E-05	6.14E-05	3.60E-05
321	577424.7	4194149	1.44E-03	4.84E-03	3.78E-03	2.24E-04	7.81E-04	5.97E-04	9.84E-06	5.96E-05	3.50E-05
322	577432	4194154	1.40E-03	4.70E-03	3.66E-03	2.17E-04	7.57E-04	5.79E-04	9.54E-06	5.78E-05	3.39E-05
323	577439.3	4194159	1.35E-03	4.54E-03	3.55E-03	2.10E-04	7.33E-04	5.60E-04	9.23E-06	5.59E-05	3.28E-05
324	577446.6	4194165	1.30E-03	4.39E-03	3.43E-03	2.03E-04	7.08E-04	5.41E-04	8.92E-06	5.40E-05	3.17E-05
325	577454	4194170	1.26E-03	4.23E-03	3.30E-03	1.96E-04	6.83E-04	5.22E-04	8.60E-06	5.21E-05	3.06E-05
326	577461.3	4194175	1.21E-03	4.08E-03	3.18E-03	1.89E-04	6.58E-04	5.02E-04	8.29E-06	5.02E-05	2.95E-05
327	577476.5	4194225	1.28E-03	4.32E-03	3.37E-03	2.00E-04	6.96E-04	5.32E-04	8.77E-06	5.31E-05	3.12E-05
328	577479.7	4194242	1.30E-03	4.36E-03	3.41E-03	2.02E-04	7.04E-04	5.38E-04	8.87E-06	5.37E-05	3.15E-05
329	577482.8	4194260	1.28E-03	4.32E-03	3.37E-03	2.00E-04	6.97E-04	5.32E-04	8.78E-06	5.32E-05	3.12E-05
330	577486	4194278	1.24E-03	4.18E-03	3.26E-03	1.93E-04	6.74E-04	5.15E-04	8.49E-06	5.14E-05	3.02E-05
331	577489.1	4194296	1.17E-03	3.94E-03	3.08E-03	1.83E-04	6.36E-04	4.86E-04	8.01E-06	4.85E-05	2.85E-05
332	577358.8	4194101	1.55E-03	5.23E-03	4.08E-03	2.42E-04	8.43E-04	6.44E-04	1.06E-05	6.44E-05	3.78E-05
333	577349.8	4194099	1.56E-03	5.27E-03	4.11E-03	2.44E-04	8.49E-04	6.49E-04	1.07E-05	6.48E-05	3.81E-05
334	577340.8	4194097	1.56E-03	5.26E-03	4.11E-03	2.44E-04	8.49E-04	6.48E-04	1.07E-05	6.48E-05	3.80E-05
335	577331.7	4194095	1.55E-03	5.22E-03	4.07E-03	2.42E-04	8.42E-04	6.43E-04	1.06E-05	6.43E-05	3.77E-05
336	577322.7	4194092	1.53E-03	5.14E-03	4.01E-03	2.38E-04	8.29E-04	6.34E-04	1.05E-05	6.33E-05	3.72E-05
337	577313.7	4194090	1.50E-03	5.04E-03	3.93E-03	2.33E-04	8.12E-04	6.20E-04	1.02E-05	6.20E-05	3.64E-05
338	577368.4	4194097	1.44E-03	4.84E-03	3.78E-03	2.24E-04	7.81E-04	5.96E-04	9.84E-06	5.96E-05	3.50E-05
339	577382.9	4194107	1.47E-03	4.94E-03	3.85E-03	2.29E-04	7.96E-04	6.08E-04	1.00E-05	6.08E-05	3.57E-05
340	577397.4	4194118	1.45E-03	4.88E-03	3.81E-03	2.26E-04	7.88E-04	6.02E-04	9.93E-06	6.01E-05	3.53E-05
341	577411.9	4194128	1.40E-03	4.73E-03	3.69E-03	2.19E-04	7.62E-04	5.82E-04	9.60E-06	5.82E-05	3.42E-05
342	577426.4	4194139	1.34E-03	4.50E-03	3.51E-03	2.08E-04	7.25E-04	5.54E-04	9.14E-06	5.54E-05	3.25E-05
343	577440.9	4194149	1.26E-03	4.24E-03	3.31E-03	1.96E-04	6.84E-04	5.23E-04	8.62E-06	5.22E-05	3.07E-05
344	577455.3	4194159	1.18E-03	3.98E-03	3.10E-03	1.84E-04	6.41E-04	4.90E-04	8.08E-06	4.89E-05	2.87E-05
345	577469.8	4194170	1.10E-03	3.71E-03	2.89E-03	1.72E-04	5.98E-04	4.57E-04	7.54E-06	4.57E-05	2.68E-05
346	577478.6	4194184	1.09E-03	3.66E-03	2.86E-03	1.70E-04	5.91E-04	4.51E-04	7.44E-06	4.51E-05	2.65E-05
347	577486.4	4194228	1.18E-03	3.96E-03	3.09E-03	1.83E-04	6.39E-04	4.88E-04	8.05E-06	4.88E-05	2.86E-05
348	577489.6	4194245	1.18E-03	3.98E-03	3.11E-03	1.84E-04	6.42E-04	4.91E-04	8.09E-06	4.90E-05	2.88E-05
349	577492.7	4194263	1.17E-03	3.93E-03	3.06E-03	1.82E-04	6.33E-04	4.84E-04	7.98E-06	4.83E-05	2.84E-05
350	577494.3	4194272	1.15E-03	3.86E-03	3.02E-03	1.79E-04	6.23E-04	4.76E-04	7.85E-06	4.76E-05	2.79E-05
351	577497.4	4194289	1.10E-03	3.69E-03	2.88E-03	1.71E-04	5.94E-04	4.54E-04	7.49E-06	4.54E-05	2.66E-05
352	577500.5	4194307	1.02E-03	3.45E-03	2.69E-03	1.60E-04	5.56E-04	4.25E-04	7.01E-06	4.24E-05	2.49E-05
353	577352.2	4194089	1.42E-03	4.77E-03	3.72E-03	2.21E-04	7.68E-04	5.87E-04	9.68E-06	5.86E-05	3.44E-05
354	577343.1	4194087	1.41E-03	4.76E-03	3.71E-03	2.20E-04	7.67E-04	5.86E-04	9.66E-06	5.85E-05	3.44E-05
355	577334.1	4194085	1.40E-03	4.71E-03	3.68E-03	2.18E-04	7.60E-04	5.80E-04	9.57E-06	5.80E-05	3.41E-05
356	577325.1	4194083	1.38E-03	4.64E-03	3.62E-03	2.15E-04	7.48E-04	5.71E-04	9.42E-06	5.71E-05	3.35E-05
357	577316	4194081	1.35E-03	4.54E-03	3.54E-03	2.10E-04	7.32E-04	5.59E-04	9.22E-06	5.59E-05	3.28E-05
358	577370.8	4194087	1.31E-03	4.41E-03	3.44E-03	2.04E-04	7.10E-04	5.43E-04	8.95E-06	5.42E-05	3.18E-05
359	577385.1	4194097	1.34E-03	4.51E-03	3.52E-03	2.09E-04	7.27E-04	5.56E-04	9.17E-06	5.55E-05	3.26E-05
360	577399.4	4194108	1.33E-03	4.49E-03	3.50E-03	2.08E-04	7.24E-04	5.53E-04	9.12E-06	5.52E-05	3.24E-05
361	577413.8	4194118	1.30E-03	4.37E-03	3.41E-03	2.02E-04	7.04E-04	5.38E-04	8.87E-06	5.38E-05	3.16E-05
362	577428.1	4194128	1.24E-03	4.18E-03	3.26E-03	1.94E-04	6.74E-04	5.15E-04	8.50E-06	5.15E-05	3.02E-05

363	577442.5	4194139	1.18E-03	3.97E-03	3.09E-03	1.84E-04	6.39E-04	4.89E-04	8.06E-06	4.88E-05	2.87E-05
364	577456.8	4194149	1.11E-03	3.74E-03	2.91E-03	1.73E-04	6.02E-04	4.60E-04	7.59E-06	4.60E-05	2.70E-05
365	577471.2	4194159	1.04E-03	3.50E-03	2.73E-03	1.62E-04	5.65E-04	4.32E-04	7.12E-06	4.31E-05	2.53E-05
366	577487.1	4194178	9.95E-04	3.35E-03	2.61E-03	1.55E-04	5.40E-04	4.12E-04	6.80E-06	4.12E-05	2.42E-05
367	577496.4	4194231	1.08E-03	3.64E-03	2.84E-03	1.69E-04	5.87E-04	4.49E-04	7.40E-06	4.48E-05	2.63E-05
368	577499.5	4194248	1.08E-03	3.64E-03	2.84E-03	1.69E-04	5.87E-04	4.49E-04	7.40E-06	4.48E-05	2.63E-05
369	577502.6	4194265	1.06E-03	3.58E-03	2.79E-03	1.66E-04	5.77E-04	4.41E-04	7.27E-06	4.40E-05	2.59E-05
370	577505.7	4194283	1.02E-03	3.44E-03	2.69E-03	1.59E-04	5.55E-04	4.24E-04	7.00E-06	4.24E-05	2.49E-05
371	577508.8	4194300	9.67E-04	3.25E-03	2.54E-03	1.51E-04	5.25E-04	4.01E-04	6.61E-06	4.00E-05	2.35E-05
372	577354.5	4194080	1.29E-03	4.33E-03	3.38E-03	2.00E-04	6.98E-04	5.33E-04	8.79E-06	5.33E-05	3.13E-05
373	577345.5	4194077	1.28E-03	4.31E-03	3.37E-03	2.00E-04	6.96E-04	5.31E-04	8.77E-06	5.31E-05	3.12E-05
374	577336.5	4194075	1.27E-03	4.27E-03	3.33E-03	1.98E-04	6.88E-04	5.26E-04	8.68E-06	5.26E-05	3.09E-05
375	577327.4	4194073	1.25E-03	4.20E-03	3.28E-03	1.94E-04	6.77E-04	5.18E-04	8.54E-06	5.17E-05	3.04E-05
376	577318.4	4194071	1.22E-03	4.12E-03	3.21E-03	1.91E-04	6.64E-04	5.07E-04	8.36E-06	5.07E-05	2.97E-05
377	577373.5	4194078	1.20E-03	4.03E-03	3.14E-03	1.86E-04	6.49E-04	4.96E-04	8.18E-06	4.96E-05	2.91E-05
378	577381	4194083	1.22E-03	4.10E-03	3.20E-03	1.90E-04	6.61E-04	5.05E-04	8.33E-06	5.04E-05	2.96E-05
379	577388.5	4194088	1.23E-03	4.14E-03	3.23E-03	1.92E-04	6.67E-04	5.10E-04	8.41E-06	5.09E-05	2.99E-05
380	577396.1	4194094	1.23E-03	4.15E-03	3.24E-03	1.92E-04	6.69E-04	5.11E-04	8.43E-06	5.10E-05	3.00E-05
381	577403.6	4194099	1.23E-03	4.13E-03	3.22E-03	1.91E-04	6.65E-04	5.08E-04	8.39E-06	5.08E-05	2.98E-05
382	577411.1	4194105	1.21E-03	4.08E-03	3.18E-03	1.89E-04	6.58E-04	5.03E-04	8.29E-06	5.02E-05	2.95E-05
383	577418.7	4194110	1.19E-03	4.02E-03	3.13E-03	1.86E-04	6.47E-04	4.95E-04	8.16E-06	4.94E-05	2.90E-05
384	577426.2	4194116	1.17E-03	3.94E-03	3.07E-03	1.82E-04	6.35E-04	4.85E-04	8.00E-06	4.84E-05	2.85E-05
385	577433.7	4194121	1.14E-03	3.85E-03	3.00E-03	1.78E-04	6.20E-04	4.74E-04	7.82E-06	4.73E-05	2.78E-05
386	577441.3	4194126	1.11E-03	3.75E-03	2.92E-03	1.74E-04	6.04E-04	4.62E-04	7.62E-06	4.61E-05	2.71E-05
387	577448.8	4194132	1.08E-03	3.65E-03	2.84E-03	1.69E-04	5.88E-04	4.49E-04	7.41E-06	4.49E-05	2.64E-05
388	577456.3	4194137	1.05E-03	3.54E-03	2.76E-03	1.64E-04	5.71E-04	4.36E-04	7.19E-06	4.36E-05	2.56E-05
389	577463.9	4194143	1.02E-03	3.43E-03	2.68E-03	1.59E-04	5.53E-04	4.23E-04	6.97E-06	4.22E-05	2.48E-05
390	577471.4	4194148	9.89E-04	3.33E-03	2.60E-03	1.54E-04	5.37E-04	4.10E-04	6.76E-06	4.10E-05	2.41E-05
391	577478.9	4194154	9.57E-04	3.22E-03	2.51E-03	1.49E-04	5.19E-04	3.97E-04	6.55E-06	3.97E-05	2.33E-05
392	577486.4	4194159	9.26E-04	3.12E-03	2.43E-03	1.44E-04	5.02E-04	3.84E-04	6.33E-06	3.83E-05	2.25E-05
393	577495.6	4194174	9.14E-04	3.07E-03	2.40E-03	1.42E-04	4.96E-04	3.79E-04	6.25E-06	3.78E-05	2.22E-05
394	577497.2	4194183	9.32E-04	3.14E-03	2.45E-03	1.45E-04	5.06E-04	3.87E-04	6.38E-06	3.86E-05	2.27E-05
395	577498.9	4194192	9.50E-04	3.20E-03	2.49E-03	1.48E-04	5.15E-04	3.94E-04	6.50E-06	3.93E-05	2.31E-05
396	577503.7	4194219	9.88E-04	3.33E-03	2.60E-03	1.54E-04	5.36E-04	4.10E-04	6.76E-06	4.09E-05	2.40E-05
397	577505.4	4194228	9.95E-04	3.35E-03	2.61E-03	1.55E-04	5.40E-04	4.12E-04	6.80E-06	4.12E-05	2.42E-05
398	577507	4194237	9.97E-04	3.36E-03	2.62E-03	1.55E-04	5.41E-04	4.14E-04	6.82E-06	4.13E-05	2.43E-05
399	577508.6	4194247	9.95E-04	3.35E-03	2.61E-03	1.55E-04	5.40E-04	4.13E-04	6.81E-06	4.12E-05	2.42E-05
400	577510.3	4194256	9.88E-04	3.33E-03	2.60E-03	1.54E-04	5.36E-04	4.10E-04	6.76E-06	4.09E-05	2.40E-05
401	577511.9	4194265	9.77E-04	3.29E-03	2.56E-03	1.52E-04	5.30E-04	4.05E-04	6.68E-06	4.05E-05	2.38E-05
402	577513.5	4194274	9.60E-04	3.23E-03	2.52E-03	1.50E-04	5.21E-04	3.98E-04	6.57E-06	3.98E-05	2.34E-05
403	577515.1	4194283	9.39E-04	3.16E-03	2.47E-03	1.46E-04	5.10E-04	3.89E-04	6.42E-06	3.89E-05	2.28E-05
404	577516.8	4194292	9.15E-04	3.08E-03	2.40E-03	1.42E-04	4.96E-04	3.79E-04	6.25E-06	3.79E-05	2.22E-05
405	577518.4	4194301	8.86E-04	2.98E-03	2.33E-03	1.38E-04	4.81E-04	3.68E-04	6.06E-06	3.67E-05	2.16E-05
406	577520	4194311	8.55E-04	2.88E-03	2.25E-03	1.33E-04	4.64E-04	3.55E-04	5.85E-06	3.54E-05	2.08E-05
407	577365.9	4194072	1.17E-03	3.93E-03	3.07E-03	1.82E-04	6.34E-04	4.85E-04	8.00E-06	4.84E-05	2.84E-05
408	577356.9	4194070	1.17E-03	3.94E-03	3.08E-03	1.82E-04	6.36E-04	4.86E-04	8.01E-06	4.85E-05	2.85E-05
409	577347.9	4194068	1.17E-03	3.92E-03	3.06E-03	1.82E-04	6.33E-04	4.83E-04	7.97E-06	4.83E-05	2.84E-05
410	577338.8	4194066	1.15E-03	3.88E-03	3.03E-03	1.80E-04	6.26E-04	4.78E-04	7.89E-06	4.78E-05	2.81E-05
411	577329.8	4194063	1.14E-03	3.82E-03	2.98E-03	1.77E-04	6.16E-04	4.71E-04	7.76E-06	4.70E-05	2.76E-05
412	577320.8	4194061	1.11E-03	3.75E-03	2.92E-03	1.73E-04	6.04E-04	4.62E-04	7.61E-06	4.61E-05	2.71E-05
413	577375.8	4194068	1.10E-03	3.69E-03	2.88E-03	1.71E-04	5.95E-04	4.55E-04	7.50E-06	4.54E-05	2.67E-05
414	577383.2	4194073	1.12E-03	3.76E-03	2.93E-03	1.74E-04	6.06E-04	4.63E-04	7.64E-06	4.63E-05	2.72E-05
415	577390.7	4194079	1.13E-03	3.80E-03	2.97E-03	1.76E-04	6.13E-04	4.69E-04	7.73E-06	4.68E-05	2.75E-05
416	577398.1	4194084	1.14E-03	3.82E-03	2.98E-03	1.77E-04	6.16E-04	4.71E-04	7.77E-06	4.70E-05	2.76E-05
417	577405.6	4194089	1.13E-03	3.81E-03	2.98E-03	1.77E-04	6.15E-04	4.70E-04	7.75E-06	4.70E-05	2.76E-05
418	577413	4194095	1.12E-03	3.78E-03	2.95E-03	1.75E-04	6.10E-04	4.66E-04	7.69E-06	4.66E-05	2.73E-05
419	577420.5	4194100	1.11E-03	3.73E-03	2.91E-03	1.73E-04	6.02E-04	4.60E-04	7.58E-06	4.59E-05	2.70E-05
420	577427.9	4194105	1.09E-03	3.67E-03	2.86E-03	1.70E-04	5.91E-04	4.52E-04	7.45E-06	4.51E-05	2.65E-05
421	577435.4	4194111	1.07E-03	3.59E-03	2.80E-03	1.66E-04	5.79E-04	4.42E-04	7.30E-06	4.42E-05	2.60E-05
422	577442.8	4194116	1.04E-03	3.51E-03	2.74E-03	1.62E-04	5.66E-04	4.32E-04	7.13E-06	4.32E-05	2.54E-05
423	577450.3	4194121	1.02E-03	3.42E-03	2.67E-03	1.58E-04	5.52E-04	4.21E-04	6.95E-06	4.21E-05	2.47E-05

424	577457.7	4194127	9.89E-04	3.33E-03	2.60E-03	1.54E-04	5.37E-04	4.10E-04	6.77E-06	4.10E-05	2.41E-05
425	577465.2	4194132	9.62E-04	3.24E-03	2.53E-03	1.50E-04	5.22E-04	3.99E-04	6.58E-06	3.98E-05	2.34E-05
426	577472.6	4194138	9.35E-04	3.15E-03	2.45E-03	1.46E-04	5.07E-04	3.88E-04	6.39E-06	3.87E-05	2.27E-05
427	577480.1	4194143	9.07E-04	3.05E-03	2.38E-03	1.41E-04	4.92E-04	3.76E-04	6.20E-06	3.76E-05	2.21E-05
428	577487.5	4194148	8.79E-04	2.96E-03	2.31E-03	1.37E-04	4.77E-04	3.65E-04	6.01E-06	3.64E-05	2.14E-05
429	577495	4194154	8.51E-04	2.87E-03	2.24E-03	1.33E-04	4.62E-04	3.53E-04	5.82E-06	3.53E-05	2.07E-05
430	577504.1	4194168	8.41E-04	2.83E-03	2.21E-03	1.31E-04	4.56E-04	3.49E-04	5.75E-06	3.48E-05	2.05E-05
431	577505.7	4194177	8.57E-04	2.89E-03	2.25E-03	1.34E-04	4.65E-04	3.55E-04	5.86E-06	3.55E-05	2.09E-05
432	577507.3	4194186	8.73E-04	2.94E-03	2.29E-03	1.36E-04	4.74E-04	3.62E-04	5.97E-06	3.62E-05	2.12E-05
433	577513.7	4194222	9.16E-04	3.08E-03	2.40E-03	1.43E-04	4.97E-04	3.80E-04	6.26E-06	3.79E-05	2.23E-05
434	577515.3	4194231	9.19E-04	3.09E-03	2.41E-03	1.43E-04	4.99E-04	3.81E-04	6.29E-06	3.81E-05	2.24E-05
435	577516.9	4194240	9.19E-04	3.09E-03	2.41E-03	1.43E-04	4.99E-04	3.81E-04	6.29E-06	3.81E-05	2.24E-05
436	577518.5	4194249	9.16E-04	3.08E-03	2.40E-03	1.43E-04	4.97E-04	3.80E-04	6.26E-06	3.79E-05	2.23E-05
437	577520.2	4194258	9.08E-04	3.05E-03	2.38E-03	1.41E-04	4.92E-04	3.76E-04	6.21E-06	3.76E-05	2.21E-05
438	577521.8	4194268	8.96E-04	3.01E-03	2.35E-03	1.40E-04	4.86E-04	3.71E-04	6.12E-06	3.71E-05	2.18E-05
439	577523.4	4194277	8.80E-04	2.96E-03	2.31E-03	1.37E-04	4.77E-04	3.65E-04	6.02E-06	3.64E-05	2.14E-05
440	577525	4194286	8.60E-04	2.90E-03	2.26E-03	1.34E-04	4.67E-04	3.57E-04	5.88E-06	3.56E-05	2.09E-05
441	577526.6	4194295	8.38E-04	2.82E-03	2.20E-03	1.31E-04	4.55E-04	3.47E-04	5.73E-06	3.47E-05	2.04E-05
442	577528.2	4194304	8.12E-04	2.73E-03	2.13E-03	1.26E-04	4.40E-04	3.37E-04	5.55E-06	3.36E-05	1.97E-05
443	577368.3	4194062	1.07E-03	3.60E-03	2.81E-03	1.67E-04	5.81E-04	4.44E-04	7.32E-06	4.44E-05	2.61E-05
444	577359.3	4194060	1.07E-03	3.60E-03	2.81E-03	1.67E-04	5.81E-04	4.44E-04	7.32E-06	4.44E-05	2.60E-05
445	577350.2	4194058	1.06E-03	3.58E-03	2.79E-03	1.66E-04	5.77E-04	4.41E-04	7.28E-06	4.41E-05	2.59E-05
446	577341.2	4194056	1.05E-03	3.54E-03	2.76E-03	1.64E-04	5.71E-04	4.36E-04	7.20E-06	4.36E-05	2.56E-05
447	577332.2	4194054	1.04E-03	3.49E-03	2.72E-03	1.61E-04	5.62E-04	4.30E-04	7.09E-06	4.29E-05	2.52E-05
448	577323.1	4194051	1.02E-03	3.42E-03	2.67E-03	1.58E-04	5.52E-04	4.22E-04	6.95E-06	4.21E-05	2.47E-05
449	577378.1	4194058	1.01E-03	3.39E-03	2.65E-03	1.57E-04	5.47E-04	4.18E-04	6.90E-06	4.18E-05	2.45E-05
450	577385.4	4194063	1.03E-03	3.46E-03	2.70E-03	1.60E-04	5.58E-04	4.26E-04	7.03E-06	4.26E-05	2.50E-05
451	577392.8	4194069	1.04E-03	3.50E-03	2.73E-03	1.62E-04	5.65E-04	4.32E-04	7.12E-06	4.31E-05	2.53E-05
452	577400.2	4194074	1.05E-03	3.53E-03	2.75E-03	1.63E-04	5.69E-04	4.35E-04	7.17E-06	4.34E-05	2.55E-05
453	577407.6	4194079	1.05E-03	3.53E-03	2.76E-03	1.63E-04	5.69E-04	4.35E-04	7.18E-06	4.35E-05	2.55E-05
454	577415	4194085	1.04E-03	3.51E-03	2.74E-03	1.63E-04	5.66E-04	4.33E-04	7.14E-06	4.32E-05	2.54E-05
455	577422.3	4194090	1.03E-03	3.47E-03	2.71E-03	1.61E-04	5.60E-04	4.28E-04	7.06E-06	4.28E-05	2.51E-05
456	577429.7	4194095	1.02E-03	3.42E-03	2.67E-03	1.58E-04	5.52E-04	4.21E-04	6.95E-06	4.21E-05	2.47E-05
457	577437.1	4194101	9.98E-04	3.36E-03	2.62E-03	1.55E-04	5.41E-04	4.14E-04	6.82E-06	4.13E-05	2.43E-05
458	577444.5	4194106	9.77E-04	3.29E-03	2.56E-03	1.52E-04	5.30E-04	4.05E-04	6.68E-06	4.05E-05	2.38E-05
459	577451.9	4194111	9.54E-04	3.21E-03	2.51E-03	1.49E-04	5.18E-04	3.96E-04	6.53E-06	3.95E-05	2.32E-05
460	577459.2	4194117	9.31E-04	3.13E-03	2.45E-03	1.45E-04	5.05E-04	3.86E-04	6.37E-06	3.86E-05	2.27E-05
461	577466.6	4194122	9.08E-04	3.05E-03	2.38E-03	1.41E-04	4.92E-04	3.76E-04	6.21E-06	3.76E-05	2.21E-05
462	577474	4194127	8.84E-04	2.97E-03	2.32E-03	1.38E-04	4.80E-04	3.66E-04	6.04E-06	3.66E-05	2.15E-05
463	577481.4	4194132	8.60E-04	2.89E-03	2.26E-03	1.34E-04	4.67E-04	3.56E-04	5.88E-06	3.56E-05	2.09E-05
464	577488.8	4194138	8.35E-04	2.81E-03	2.19E-03	1.30E-04	4.53E-04	3.46E-04	5.71E-06	3.46E-05	2.03E-05
465	577496.2	4194143	8.10E-04	2.73E-03	2.13E-03	1.26E-04	4.40E-04	3.36E-04	5.54E-06	3.36E-05	1.97E-05
466	577503.5	4194148	7.85E-04	2.64E-03	2.06E-03	1.22E-04	4.26E-04	3.25E-04	5.37E-06	3.25E-05	1.91E-05
467	577512.5	4194163	7.76E-04	2.61E-03	2.04E-03	1.21E-04	4.21E-04	3.22E-04	5.31E-06	3.21E-05	1.89E-05
468	577515.7	4194181	8.04E-04	2.71E-03	2.11E-03	1.25E-04	4.36E-04	3.33E-04	5.50E-06	3.33E-05	1.96E-05
469	577517.3	4194190	8.17E-04	2.75E-03	2.15E-03	1.27E-04	4.43E-04	3.39E-04	5.59E-06	3.38E-05	1.99E-05
470	577525.3	4194234	8.51E-04	2.86E-03	2.23E-03	1.33E-04	4.62E-04	3.53E-04	5.82E-06	3.53E-05	2.07E-05
471	577526.9	4194243	8.50E-04	2.86E-03	2.23E-03	1.32E-04	4.61E-04	3.52E-04	5.81E-06	3.52E-05	2.07E-05
472	577528.5	4194252	8.46E-04	2.85E-03	2.22E-03	1.32E-04	4.59E-04	3.51E-04	5.78E-06	3.50E-05	2.06E-05
473	577530.1	4194261	8.37E-04	2.82E-03	2.20E-03	1.30E-04	4.54E-04	3.47E-04	5.73E-06	3.47E-05	2.04E-05
474	577531.6	4194270	8.25E-04	2.78E-03	2.17E-03	1.29E-04	4.48E-04	3.42E-04	5.64E-06	3.42E-05	2.01E-05
475	577534.8	4194288	7.90E-04	2.66E-03	2.07E-03	1.23E-04	4.29E-04	3.28E-04	5.40E-06	3.27E-05	1.92E-05
476	577536.4	4194297	7.68E-04	2.58E-03	2.02E-03	1.20E-04	4.17E-04	3.18E-04	5.25E-06	3.18E-05	1.87E-05
477	577538	4194306	7.42E-04	2.50E-03	1.95E-03	1.16E-04	4.03E-04	3.08E-04	5.08E-06	3.07E-05	1.81E-05
478	577539.6	4194315	7.14E-04	2.40E-03	1.88E-03	1.11E-04	3.88E-04	2.96E-04	4.88E-06	2.96E-05	1.74E-05
479	577370.7	4194053	9.84E-04	3.31E-03	2.58E-03	1.53E-04	5.34E-04	4.08E-04	6.73E-06	4.08E-05	2.39E-05
480	577361.6	4194051	9.82E-04	3.31E-03	2.58E-03	1.53E-04	5.33E-04	4.07E-04	6.72E-06	4.07E-05	2.39E-05
481	577352.6	4194048	9.75E-04	3.28E-03	2.56E-03	1.52E-04	5.29E-04	4.04E-04	6.67E-06	4.04E-05	2.37E-05
482	577343.6	4194046	9.63E-04	3.24E-03	2.53E-03	1.50E-04	5.23E-04	3.99E-04	6.59E-06	3.99E-05	2.34E-05
483	577334.5	4194044	9.49E-04	3.19E-03	2.49E-03	1.48E-04	5.15E-04	3.93E-04	6.49E-06	3.93E-05	2.31E-05
484	577325.5	4194042	9.32E-04	3.14E-03	2.45E-03	1.45E-04	5.06E-04	3.86E-04	6.37E-06	3.86E-05	2.27E-05

485	577380.4	4194048	9.29E-04	3.13E-03	2.44E-03	1.45E-04	5.04E-04	3.85E-04	6.36E-06	3.85E-05	2.26E-05
486	577387.7	4194054	9.48E-04	3.19E-03	2.49E-03	1.48E-04	5.14E-04	3.93E-04	6.48E-06	3.93E-05	2.31E-05
487	577395	4194059	9.61E-04	3.23E-03	2.52E-03	1.50E-04	5.22E-04	3.99E-04	6.57E-06	3.98E-05	2.34E-05
488	577402.3	4194064	9.70E-04	3.26E-03	2.55E-03	1.51E-04	5.26E-04	4.02E-04	6.63E-06	4.02E-05	2.36E-05
489	577409.6	4194069	9.72E-04	3.27E-03	2.55E-03	1.52E-04	5.28E-04	4.03E-04	6.65E-06	4.03E-05	2.37E-05
490	577416.9	4194075	9.70E-04	3.26E-03	2.55E-03	1.51E-04	5.26E-04	4.02E-04	6.63E-06	4.02E-05	2.36E-05
491	577424.3	4194080	9.62E-04	3.24E-03	2.53E-03	1.50E-04	5.22E-04	3.99E-04	6.58E-06	3.98E-05	2.34E-05
492	577431.6	4194085	9.50E-04	3.20E-03	2.49E-03	1.48E-04	5.15E-04	3.94E-04	6.50E-06	3.93E-05	2.31E-05
493	577438.9	4194090	9.35E-04	3.15E-03	2.45E-03	1.46E-04	5.07E-04	3.88E-04	6.39E-06	3.87E-05	2.27E-05
494	577446.2	4194096	9.17E-04	3.09E-03	2.41E-03	1.43E-04	4.98E-04	3.80E-04	6.27E-06	3.80E-05	2.23E-05
495	577453.5	4194101	8.98E-04	3.02E-03	2.36E-03	1.40E-04	4.87E-04	3.72E-04	6.14E-06	3.72E-05	2.18E-05
496	577460.8	4194106	8.77E-04	2.95E-03	2.30E-03	1.37E-04	4.76E-04	3.64E-04	6.00E-06	3.63E-05	2.13E-05
497	577468.2	4194112	8.57E-04	2.88E-03	2.25E-03	1.33E-04	4.65E-04	3.55E-04	5.86E-06	3.55E-05	2.08E-05
498	577475.5	4194117	8.36E-04	2.81E-03	2.20E-03	1.30E-04	4.54E-04	3.47E-04	5.72E-06	3.46E-05	2.03E-05
499	577482.8	4194122	8.15E-04	2.74E-03	2.14E-03	1.27E-04	4.42E-04	3.38E-04	5.57E-06	3.37E-05	1.98E-05
500	577490.1	4194127	7.93E-04	2.67E-03	2.08E-03	1.24E-04	4.30E-04	3.29E-04	5.42E-06	3.29E-05	1.93E-05
501	577497.4	4194133	7.71E-04	2.59E-03	2.02E-03	1.20E-04	4.18E-04	3.20E-04	5.27E-06	3.19E-05	1.88E-05
502	577504.7	4194138	7.48E-04	2.52E-03	1.96E-03	1.17E-04	4.06E-04	3.10E-04	5.12E-06	3.10E-05	1.82E-05
503	577512.1	4194143	7.26E-04	2.44E-03	1.91E-03	1.13E-04	3.94E-04	3.01E-04	4.96E-06	3.01E-05	1.77E-05
504	577521	4194157	7.18E-04	2.42E-03	1.88E-03	1.12E-04	3.89E-04	2.98E-04	4.91E-06	2.97E-05	1.75E-05
505	577522.5	4194166	7.31E-04	2.46E-03	1.92E-03	1.14E-04	3.97E-04	3.03E-04	5.00E-06	3.03E-05	1.78E-05
506	577525.7	4194184	7.55E-04	2.54E-03	1.98E-03	1.18E-04	4.10E-04	3.13E-04	5.16E-06	3.13E-05	1.84E-05
507	577535.2	4194237	7.90E-04	2.66E-03	2.08E-03	1.23E-04	4.29E-04	3.28E-04	5.41E-06	3.27E-05	1.92E-05
508	577538.3	4194255	7.81E-04	2.63E-03	2.05E-03	1.22E-04	4.24E-04	3.24E-04	5.34E-06	3.23E-05	1.90E-05
509	577541.5	4194273	7.58E-04	2.55E-03	1.99E-03	1.18E-04	4.12E-04	3.14E-04	5.19E-06	3.14E-05	1.84E-05
510	577544.7	4194290	7.19E-04	2.42E-03	1.89E-03	1.12E-04	3.90E-04	2.98E-04	4.92E-06	2.98E-05	1.75E-05
511	577547.8	4194308	6.75E-04	2.27E-03	1.77E-03	1.05E-04	3.66E-04	2.80E-04	4.62E-06	2.80E-05	1.64E-05
512	577549.4	4194317	6.52E-04	2.19E-03	1.71E-03	1.02E-04	3.54E-04	2.70E-04	4.46E-06	2.70E-05	1.59E-05
513	577373.1	4194043	9.06E-04	3.05E-03	2.38E-03	1.41E-04	4.92E-04	3.76E-04	6.20E-06	3.75E-05	2.20E-05
514	577364	4194041	9.03E-04	3.04E-03	2.37E-03	1.41E-04	4.90E-04	3.75E-04	6.18E-06	3.74E-05	2.20E-05
515	577355	4194039	8.96E-04	3.02E-03	2.35E-03	1.40E-04	4.86E-04	3.72E-04	6.13E-06	3.71E-05	2.18E-05
516	577345.9	4194036	8.85E-04	2.98E-03	2.32E-03	1.38E-04	4.80E-04	3.67E-04	6.05E-06	3.67E-05	2.15E-05
517	577336.9	4194034	8.72E-04	2.94E-03	2.29E-03	1.36E-04	4.73E-04	3.62E-04	5.97E-06	3.61E-05	2.12E-05
518	577327.9	4194032	8.57E-04	2.88E-03	2.25E-03	1.34E-04	4.65E-04	3.55E-04	5.86E-06	3.55E-05	2.08E-05
519	577382.7	4194039	8.58E-04	2.89E-03	2.25E-03	1.34E-04	4.66E-04	3.56E-04	5.87E-06	3.55E-05	2.09E-05
520	577397.2	4194049	8.89E-04	2.99E-03	2.33E-03	1.39E-04	4.82E-04	3.69E-04	6.08E-06	3.68E-05	2.16E-05
521	577411.7	4194059	9.03E-04	3.04E-03	2.37E-03	1.41E-04	4.90E-04	3.74E-04	6.17E-06	3.74E-05	2.20E-05
522	577426.2	4194070	8.97E-04	3.02E-03	2.36E-03	1.40E-04	4.87E-04	3.72E-04	6.14E-06	3.72E-05	2.18E-05
523	577440.7	4194080	8.76E-04	2.95E-03	2.30E-03	1.37E-04	4.76E-04	3.63E-04	5.99E-06	3.63E-05	2.13E-05
524	577455.3	4194091	8.45E-04	2.85E-03	2.22E-03	1.32E-04	4.59E-04	3.50E-04	5.78E-06	3.50E-05	2.06E-05
525	577469.8	4194101	8.09E-04	2.72E-03	2.13E-03	1.26E-04	4.39E-04	3.36E-04	5.54E-06	3.35E-05	1.97E-05
526	577484.3	4194112	7.72E-04	2.60E-03	2.03E-03	1.20E-04	4.19E-04	3.20E-04	5.28E-06	3.20E-05	1.88E-05
527	577498.8	4194122	7.33E-04	2.47E-03	1.93E-03	1.14E-04	3.98E-04	3.04E-04	5.01E-06	3.04E-05	1.78E-05
528	577513.3	4194133	6.93E-04	2.33E-03	1.82E-03	1.08E-04	3.76E-04	2.87E-04	4.74E-06	2.87E-05	1.68E-05
529	577529.4	4194152	6.65E-04	2.24E-03	1.75E-03	1.04E-04	3.61E-04	2.76E-04	4.55E-06	2.76E-05	1.62E-05
530	577531	4194161	6.78E-04	2.28E-03	1.78E-03	1.06E-04	3.68E-04	2.81E-04	4.63E-06	2.81E-05	1.65E-05
531	577534.1	4194178	7.00E-04	2.35E-03	1.84E-03	1.09E-04	3.80E-04	2.90E-04	4.78E-06	2.90E-05	1.70E-05
532	577537.3	4194196	7.18E-04	2.42E-03	1.88E-03	1.12E-04	3.89E-04	2.98E-04	4.91E-06	2.97E-05	1.75E-05
533	577543.5	4194231	7.35E-04	2.47E-03	1.93E-03	1.15E-04	3.99E-04	3.05E-04	5.03E-06	3.04E-05	1.79E-05
534	577546.7	4194249	7.28E-04	2.45E-03	1.91E-03	1.13E-04	3.95E-04	3.02E-04	4.98E-06	3.02E-05	1.77E-05
535	577549.8	4194266	7.00E-04	2.36E-03	1.84E-03	1.09E-04	3.80E-04	2.90E-04	4.79E-06	2.90E-05	1.70E-05
536	577551.4	4194275	6.86E-04	2.31E-03	1.80E-03	1.07E-04	3.72E-04	2.84E-04	4.69E-06	2.84E-05	1.67E-05
537	577554.5	4194293	6.53E-04	2.20E-03	1.71E-03	1.02E-04	3.54E-04	2.71E-04	4.46E-06	2.70E-05	1.59E-05
538	577557.6	4194310	6.16E-04	2.07E-03	1.62E-03	9.59E-05	3.34E-04	2.55E-04	4.21E-06	2.55E-05	1.50E-05
539	577366.4	4194031	8.33E-04	2.80E-03	2.19E-03	1.30E-04	4.52E-04	3.45E-04	5.70E-06	3.45E-05	2.03E-05
540	577357.4	4194029	8.26E-04	2.78E-03	2.17E-03	1.29E-04	4.48E-04	3.42E-04	5.65E-06	3.42E-05	2.01E-05
541	577348.3	4194027	8.16E-04	2.75E-03	2.14E-03	1.27E-04	4.43E-04	3.38E-04	5.58E-06	3.38E-05	1.99E-05
542	577339.3	4194024	8.04E-04	2.71E-03	2.11E-03	1.25E-04	4.36E-04	3.33E-04	5.50E-06	3.33E-05	1.96E-05
543	577330.2	4194022	7.90E-04	2.66E-03	2.07E-03	1.23E-04	4.29E-04	3.28E-04	5.40E-06	3.27E-05	1.92E-05
544	577385	4194029	7.94E-04	2.67E-03	2.09E-03	1.24E-04	4.31E-04	3.29E-04	5.43E-06	3.29E-05	1.93E-05
545	577399.4	4194039	8.25E-04	2.77E-03	2.17E-03	1.28E-04	4.47E-04	3.42E-04	5.64E-06	3.42E-05	2.01E-05

546	577413.8	4194050	8.39E-04	2.83E-03	2.20E-03	1.31E-04	4.56E-04	3.48E-04	5.74E-06	3.48E-05	2.04E-05
547	577428.2	4194060	8.38E-04	2.82E-03	2.20E-03	1.31E-04	4.55E-04	3.48E-04	5.73E-06	3.47E-05	2.04E-05
548	577442.6	4194070	8.22E-04	2.77E-03	2.16E-03	1.28E-04	4.46E-04	3.41E-04	5.62E-06	3.41E-05	2.00E-05
549	577457	4194081	7.97E-04	2.68E-03	2.09E-03	1.24E-04	4.32E-04	3.30E-04	5.45E-06	3.30E-05	1.94E-05
550	577471.5	4194091	7.66E-04	2.58E-03	2.01E-03	1.19E-04	4.15E-04	3.17E-04	5.24E-06	3.17E-05	1.86E-05
551	577485.9	4194101	7.32E-04	2.46E-03	1.92E-03	1.14E-04	3.97E-04	3.04E-04	5.01E-06	3.03E-05	1.78E-05
552	577500.3	4194112	6.98E-04	2.35E-03	1.83E-03	1.09E-04	3.79E-04	2.89E-04	4.77E-06	2.89E-05	1.70E-05
553	577514.7	4194122	6.61E-04	2.23E-03	1.74E-03	1.03E-04	3.59E-04	2.74E-04	4.52E-06	2.74E-05	1.61E-05
554	577529.1	4194133	6.25E-04	2.10E-03	1.64E-03	9.74E-05	3.39E-04	2.59E-04	4.27E-06	2.59E-05	1.52E-05
555	577537.9	4194146	6.19E-04	2.08E-03	1.62E-03	9.64E-05	3.36E-04	2.57E-04	4.23E-06	2.56E-05	1.51E-05
556	577541	4194164	6.40E-04	2.15E-03	1.68E-03	9.97E-05	3.47E-04	2.65E-04	4.38E-06	2.65E-05	1.56E-05
557	577544.1	4194181	6.59E-04	2.22E-03	1.73E-03	1.03E-04	3.57E-04	2.73E-04	4.50E-06	2.73E-05	1.60E-05
558	577547.2	4194199	6.74E-04	2.27E-03	1.77E-03	1.05E-04	3.66E-04	2.79E-04	4.61E-06	2.79E-05	1.64E-05
559	577553.4	4194234	6.85E-04	2.30E-03	1.80E-03	1.07E-04	3.72E-04	2.84E-04	4.68E-06	2.84E-05	1.67E-05
560	577556.5	4194251	6.66E-04	2.24E-03	1.75E-03	1.04E-04	3.61E-04	2.76E-04	4.55E-06	2.76E-05	1.62E-05
561	577559.7	4194269	6.39E-04	2.15E-03	1.68E-03	9.96E-05	3.47E-04	2.65E-04	4.37E-06	2.65E-05	1.56E-05
562	577562.8	4194286	6.10E-04	2.05E-03	1.60E-03	9.50E-05	3.31E-04	2.53E-04	4.17E-06	2.53E-05	1.48E-05
563	577565.9	4194304	5.79E-04	1.95E-03	1.52E-03	9.02E-05	3.14E-04	2.40E-04	3.96E-06	2.40E-05	1.41E-05
564	577368.8	4194021	7.70E-04	2.59E-03	2.02E-03	1.20E-04	4.18E-04	3.19E-04	5.27E-06	3.19E-05	1.87E-05
565	577359.7	4194019	7.63E-04	2.57E-03	2.00E-03	1.19E-04	4.14E-04	3.16E-04	5.22E-06	3.16E-05	1.86E-05
566	577350.7	4194017	7.54E-04	2.54E-03	1.98E-03	1.18E-04	4.09E-04	3.13E-04	5.16E-06	3.12E-05	1.83E-05
567	577341.7	4194015	7.43E-04	2.50E-03	1.95E-03	1.16E-04	4.03E-04	3.08E-04	5.08E-06	3.08E-05	1.81E-05
568	577332.6	4194013	7.31E-04	2.46E-03	1.92E-03	1.14E-04	3.96E-04	3.03E-04	5.00E-06	3.03E-05	1.78E-05
569	577387.6	4194019	7.38E-04	2.48E-03	1.94E-03	1.15E-04	4.00E-04	3.06E-04	5.04E-06	3.06E-05	1.79E-05
570	577395.1	4194025	7.55E-04	2.54E-03	1.98E-03	1.18E-04	4.09E-04	3.13E-04	5.16E-06	3.13E-05	1.84E-05
571	577402.6	4194030	7.68E-04	2.58E-03	2.02E-03	1.20E-04	4.17E-04	3.18E-04	5.25E-06	3.18E-05	1.87E-05
572	577410.1	4194035	7.77E-04	2.62E-03	2.04E-03	1.21E-04	4.22E-04	3.22E-04	5.32E-06	3.22E-05	1.89E-05
573	577417.6	4194041	7.83E-04	2.64E-03	2.06E-03	1.22E-04	4.25E-04	3.25E-04	5.36E-06	3.24E-05	1.91E-05
574	577425	4194046	7.85E-04	2.64E-03	2.06E-03	1.22E-04	4.26E-04	3.26E-04	5.37E-06	3.25E-05	1.91E-05
575	577432.5	4194052	7.83E-04	2.64E-03	2.06E-03	1.22E-04	4.25E-04	3.25E-04	5.36E-06	3.24E-05	1.91E-05
576	577440	4194057	7.77E-04	2.62E-03	2.04E-03	1.21E-04	4.22E-04	3.22E-04	5.32E-06	3.22E-05	1.89E-05
577	577447.5	4194062	7.69E-04	2.59E-03	2.02E-03	1.20E-04	4.17E-04	3.19E-04	5.26E-06	3.18E-05	1.87E-05
578	577455	4194068	7.58E-04	2.55E-03	1.99E-03	1.18E-04	4.11E-04	3.14E-04	5.18E-06	3.14E-05	1.84E-05
579	577462.5	4194073	7.45E-04	2.51E-03	1.96E-03	1.16E-04	4.04E-04	3.09E-04	5.09E-06	3.09E-05	1.81E-05
580	577469.9	4194079	7.31E-04	2.46E-03	1.92E-03	1.14E-04	3.97E-04	3.03E-04	5.00E-06	3.03E-05	1.78E-05
581	577477.4	4194084	7.16E-04	2.41E-03	1.88E-03	1.12E-04	3.88E-04	2.97E-04	4.90E-06	2.96E-05	1.74E-05
582	577484.9	4194089	7.00E-04	2.36E-03	1.84E-03	1.09E-04	3.80E-04	2.90E-04	4.79E-06	2.90E-05	1.70E-05
583	577492.4	4194095	6.85E-04	2.30E-03	1.80E-03	1.07E-04	3.71E-04	2.84E-04	4.68E-06	2.84E-05	1.67E-05
584	577499.9	4194100	6.68E-04	2.25E-03	1.75E-03	1.04E-04	3.63E-04	2.77E-04	4.57E-06	2.77E-05	1.63E-05
585	577507.4	4194105	6.51E-04	2.19E-03	1.71E-03	1.01E-04	3.53E-04	2.70E-04	4.45E-06	2.70E-05	1.58E-05
586	577514.8	4194111	6.34E-04	2.13E-03	1.67E-03	9.88E-05	3.44E-04	2.63E-04	4.34E-06	2.63E-05	1.54E-05
587	577522.3	4194116	6.17E-04	2.08E-03	1.62E-03	9.61E-05	3.35E-04	2.56E-04	4.22E-06	2.56E-05	1.50E-05
588	577529.8	4194122	6.00E-04	2.02E-03	1.58E-03	9.35E-05	3.26E-04	2.49E-04	4.11E-06	2.49E-05	1.46E-05
589	577537.3	4194127	5.84E-04	1.96E-03	1.53E-03	9.09E-05	3.17E-04	2.42E-04	3.99E-06	2.42E-05	1.42E-05
590	577546.4	4194142	5.77E-04	1.94E-03	1.52E-03	8.99E-05	3.13E-04	2.39E-04	3.95E-06	2.39E-05	1.40E-05
591	577548	4194151	5.87E-04	1.98E-03	1.54E-03	9.15E-05	3.19E-04	2.43E-04	4.02E-06	2.43E-05	1.43E-05
592	577549.6	4194160	5.97E-04	2.01E-03	1.57E-03	9.30E-05	3.24E-04	2.48E-04	4.08E-06	2.47E-05	1.45E-05
593	577551.2	4194169	6.06E-04	2.04E-03	1.59E-03	9.45E-05	3.29E-04	2.51E-04	4.15E-06	2.51E-05	1.47E-05
594	577552.9	4194178	6.15E-04	2.07E-03	1.61E-03	9.58E-05	3.34E-04	2.55E-04	4.20E-06	2.55E-05	1.50E-05
595	577554.5	4194187	6.22E-04	2.09E-03	1.63E-03	9.70E-05	3.38E-04	2.58E-04	4.26E-06	2.58E-05	1.51E-05
596	577556.1	4194196	6.29E-04	2.12E-03	1.65E-03	9.80E-05	3.41E-04	2.61E-04	4.30E-06	2.60E-05	1.53E-05
597	577562.6	4194232	6.39E-04	2.15E-03	1.68E-03	9.96E-05	3.47E-04	2.65E-04	4.37E-06	2.65E-05	1.56E-05
598	577564.2	4194241	6.35E-04	2.14E-03	1.67E-03	9.90E-05	3.45E-04	2.63E-04	4.35E-06	2.63E-05	1.55E-05
599	577565.8	4194250	6.19E-04	2.08E-03	1.63E-03	9.64E-05	3.36E-04	2.57E-04	4.23E-06	2.56E-05	1.51E-05
600	577567.4	4194260	6.03E-04	2.03E-03	1.58E-03	9.40E-05	3.27E-04	2.50E-04	4.13E-06	2.50E-05	1.47E-05
601	577569	4194269	5.91E-04	1.99E-03	1.55E-03	9.20E-05	3.20E-04	2.45E-04	4.04E-06	2.45E-05	1.44E-05
602	577570.6	4194278	5.76E-04	1.94E-03	1.51E-03	8.97E-05	3.13E-04	2.39E-04	3.94E-06	2.39E-05	1.40E-05
603	577572.3	4194287	5.60E-04	1.88E-03	1.47E-03	8.72E-05	3.04E-04	2.32E-04	3.83E-06	2.32E-05	1.36E-05
604	577573.9	4194296	5.46E-04	1.84E-03	1.43E-03	8.51E-05	2.96E-04	2.27E-04	3.74E-06	2.26E-05	1.33E-05
605	577575.5	4194305	5.32E-04	1.79E-03	1.40E-03	8.28E-05	2.89E-04	2.20E-04	3.64E-06	2.20E-05	1.29E-05
606	577577.1	4194314	5.16E-04	1.74E-03	1.36E-03	8.04E-05	2.80E-04	2.14E-04	3.53E-06	2.14E-05	1.26E-05

607	577578.7	4194323	5.00E-04	1.68E-03	1.31E-03	7.79E-05	2.71E-04	2.07E-04	3.42E-06	2.07E-05	1.22E-05
608	577380.2	4194014	7.18E-04	2.42E-03	1.88E-03	1.12E-04	3.89E-04	2.98E-04	4.91E-06	2.97E-05	1.75E-05
609	577371.1	4194012	7.14E-04	2.40E-03	1.87E-03	1.11E-04	3.87E-04	2.96E-04	4.88E-06	2.96E-05	1.74E-05
610	577362.1	4194009	7.07E-04	2.38E-03	1.86E-03	1.10E-04	3.84E-04	2.93E-04	4.84E-06	2.93E-05	1.72E-05
611	577353.1	4194007	6.99E-04	2.35E-03	1.84E-03	1.09E-04	3.79E-04	2.90E-04	4.78E-06	2.89E-05	1.70E-05
612	577344	4194005	6.89E-04	2.32E-03	1.81E-03	1.07E-04	3.74E-04	2.86E-04	4.71E-06	2.85E-05	1.68E-05
613	577335	4194003	6.77E-04	2.28E-03	1.78E-03	1.05E-04	3.67E-04	2.81E-04	4.63E-06	2.80E-05	1.65E-05
614	577389.9	4194009	6.86E-04	2.31E-03	1.80E-03	1.07E-04	3.72E-04	2.84E-04	4.69E-06	2.84E-05	1.67E-05
615	577397.4	4194015	7.02E-04	2.36E-03	1.84E-03	1.09E-04	3.81E-04	2.91E-04	4.80E-06	2.91E-05	1.71E-05
616	577404.8	4194020	7.15E-04	2.41E-03	1.88E-03	1.11E-04	3.88E-04	2.97E-04	4.89E-06	2.96E-05	1.74E-05
617	577412.2	4194026	7.25E-04	2.44E-03	1.90E-03	1.13E-04	3.93E-04	3.00E-04	4.96E-06	3.00E-05	1.76E-05
618	577419.6	4194031	7.31E-04	2.46E-03	1.92E-03	1.14E-04	3.97E-04	3.03E-04	5.00E-06	3.03E-05	1.78E-05
619	577427.1	4194036	7.34E-04	2.47E-03	1.93E-03	1.14E-04	3.98E-04	3.04E-04	5.02E-06	3.04E-05	1.79E-05
620	577434.5	4194042	7.34E-04	2.47E-03	1.93E-03	1.14E-04	3.98E-04	3.04E-04	5.02E-06	3.04E-05	1.78E-05
621	577441.9	4194047	7.30E-04	2.46E-03	1.92E-03	1.14E-04	3.96E-04	3.03E-04	4.99E-06	3.02E-05	1.78E-05
622	577449.3	4194052	7.23E-04	2.43E-03	1.90E-03	1.13E-04	3.93E-04	3.00E-04	4.95E-06	3.00E-05	1.76E-05
623	577456.7	4194058	7.14E-04	2.40E-03	1.88E-03	1.11E-04	3.88E-04	2.96E-04	4.89E-06	2.96E-05	1.74E-05
624	577464.2	4194063	7.04E-04	2.37E-03	1.85E-03	1.10E-04	3.82E-04	2.92E-04	4.81E-06	2.92E-05	1.71E-05
625	577471.6	4194068	6.92E-04	2.33E-03	1.82E-03	1.08E-04	3.75E-04	2.87E-04	4.73E-06	2.87E-05	1.68E-05
626	577479	4194074	6.79E-04	2.28E-03	1.78E-03	1.06E-04	3.68E-04	2.81E-04	4.64E-06	2.81E-05	1.65E-05
627	577486.4	4194079	6.65E-04	2.24E-03	1.75E-03	1.04E-04	3.61E-04	2.76E-04	4.55E-06	2.75E-05	1.62E-05
628	577493.9	4194084	6.51E-04	2.19E-03	1.71E-03	1.01E-04	3.53E-04	2.70E-04	4.45E-06	2.70E-05	1.58E-05
629	577501.3	4194090	6.36E-04	2.14E-03	1.67E-03	9.91E-05	3.45E-04	2.64E-04	4.35E-06	2.64E-05	1.55E-05
630	577508.7	4194095	6.21E-04	2.09E-03	1.63E-03	9.68E-05	3.37E-04	2.58E-04	4.25E-06	2.57E-05	1.51E-05
631	577516.1	4194100	6.06E-04	2.04E-03	1.59E-03	9.44E-05	3.29E-04	2.51E-04	4.14E-06	2.51E-05	1.47E-05
632	577523.5	4194106	5.91E-04	1.99E-03	1.55E-03	9.20E-05	3.20E-04	2.45E-04	4.04E-06	2.45E-05	1.44E-05
633	577531	4194111	5.75E-04	1.94E-03	1.51E-03	8.97E-05	3.12E-04	2.39E-04	3.94E-06	2.38E-05	1.40E-05
634	577538.4	4194116	5.60E-04	1.89E-03	1.47E-03	8.73E-05	3.04E-04	2.32E-04	3.83E-06	2.32E-05	1.36E-05
635	577545.8	4194122	5.45E-04	1.83E-03	1.43E-03	8.49E-05	2.96E-04	2.26E-04	3.73E-06	2.26E-05	1.33E-05
636	577554.8	4194136	5.39E-04	1.81E-03	1.42E-03	8.40E-05	2.92E-04	2.23E-04	3.69E-06	2.23E-05	1.31E-05
637	577556.4	4194145	5.48E-04	1.84E-03	1.44E-03	8.54E-05	2.97E-04	2.27E-04	3.75E-06	2.27E-05	1.33E-05
638	577558	4194154	5.57E-04	1.87E-03	1.46E-03	8.68E-05	3.02E-04	2.31E-04	3.81E-06	2.31E-05	1.35E-05
639	577559.7	4194163	5.65E-04	1.90E-03	1.48E-03	8.81E-05	3.07E-04	2.34E-04	3.87E-06	2.34E-05	1.38E-05
640	577561.3	4194172	5.73E-04	1.93E-03	1.50E-03	8.93E-05	3.11E-04	2.38E-04	3.92E-06	2.37E-05	1.39E-05
641	577562.9	4194181	5.80E-04	1.95E-03	1.52E-03	9.04E-05	3.15E-04	2.40E-04	3.97E-06	2.40E-05	1.41E-05
642	577564.5	4194190	5.86E-04	1.97E-03	1.54E-03	9.13E-05	3.18E-04	2.43E-04	4.01E-06	2.43E-05	1.43E-05
643	577566.1	4194199	5.91E-04	1.99E-03	1.55E-03	9.21E-05	3.21E-04	2.45E-04	4.04E-06	2.45E-05	1.44E-05
644	577572.5	4194235	5.97E-04	2.01E-03	1.57E-03	9.30E-05	3.24E-04	2.47E-04	4.08E-06	2.47E-05	1.45E-05
645	577574.1	4194244	5.87E-04	1.98E-03	1.54E-03	9.15E-05	3.19E-04	2.44E-04	4.02E-06	2.43E-05	1.43E-05
646	577575.7	4194253	5.70E-04	1.92E-03	1.50E-03	8.88E-05	3.09E-04	2.36E-04	3.90E-06	2.36E-05	1.39E-05
647	577577.3	4194262	5.56E-04	1.87E-03	1.46E-03	8.66E-05	3.02E-04	2.30E-04	3.80E-06	2.30E-05	1.35E-05
648	577578.9	4194271	5.43E-04	1.83E-03	1.42E-03	8.45E-05	2.94E-04	2.25E-04	3.71E-06	2.25E-05	1.32E-05
649	577580.5	4194280	5.28E-04	1.78E-03	1.39E-03	8.22E-05	2.86E-04	2.19E-04	3.61E-06	2.19E-05	1.28E-05
650	577582.1	4194289	5.13E-04	1.73E-03	1.35E-03	7.99E-05	2.78E-04	2.13E-04	3.51E-06	2.12E-05	1.25E-05
651	577583.7	4194298	5.01E-04	1.68E-03	1.31E-03	7.80E-05	2.72E-04	2.08E-04	3.42E-06	2.07E-05	1.22E-05
652	577586.9	4194316	4.77E-04	1.60E-03	1.25E-03	7.43E-05	2.59E-04	1.98E-04	3.26E-06	1.97E-05	1.16E-05
653	577588.5	4194325	4.64E-04	1.56E-03	1.22E-03	7.23E-05	2.52E-04	1.92E-04	3.17E-06	1.92E-05	1.13E-05
654	577382.5	4194004	6.68E-04	2.25E-03	1.75E-03	1.04E-04	3.62E-04	2.77E-04	4.57E-06	2.77E-05	1.62E-05
655	577373.5	4194002	6.63E-04	2.23E-03	1.74E-03	1.03E-04	3.60E-04	2.75E-04	4.54E-06	2.75E-05	1.61E-05
656	577364.5	4194000	6.57E-04	2.21E-03	1.73E-03	1.02E-04	3.57E-04	2.72E-04	4.49E-06	2.72E-05	1.60E-05
657	577355.4	4193998	6.49E-04	2.18E-03	1.70E-03	1.01E-04	3.52E-04	2.69E-04	4.44E-06	2.69E-05	1.58E-05
658	577346.4	4193995	6.40E-04	2.15E-03	1.68E-03	9.97E-05	3.47E-04	2.65E-04	4.38E-06	2.65E-05	1.56E-05
659	577337.4	4193993	6.29E-04	2.12E-03	1.65E-03	9.80E-05	3.41E-04	2.61E-04	4.30E-06	2.61E-05	1.53E-05
660	577392.3	4194000	6.39E-04	2.15E-03	1.68E-03	9.96E-05	3.47E-04	2.65E-04	4.37E-06	2.65E-05	1.55E-05
661	577399.6	4194005	6.54E-04	2.20E-03	1.72E-03	1.02E-04	3.55E-04	2.71E-04	4.47E-06	2.71E-05	1.59E-05
662	577407	4194010	6.67E-04	2.24E-03	1.75E-03	1.04E-04	3.62E-04	2.76E-04	4.56E-06	2.76E-05	1.62E-05
663	577414.4	4194016	6.77E-04	2.28E-03	1.78E-03	1.05E-04	3.67E-04	2.81E-04	4.63E-06	2.80E-05	1.65E-05
664	577421.7	4194021	6.83E-04	2.30E-03	1.79E-03	1.06E-04	3.71E-04	2.83E-04	4.67E-06	2.83E-05	1.66E-05
665	577429.1	4194026	6.87E-04	2.31E-03	1.80E-03	1.07E-04	3.73E-04	2.85E-04	4.70E-06	2.85E-05	1.67E-05
666	577436.5	4194032	6.88E-04	2.31E-03	1.81E-03	1.07E-04	3.73E-04	2.85E-04	4.70E-06	2.85E-05	1.67E-05
667	577443.8	4194037	6.86E-04	2.31E-03	1.80E-03	1.07E-04	3.72E-04	2.84E-04	4.69E-06	2.84E-05	1.67E-05

668	577451.2	4194042	6.81E-04	2.29E-03	1.79E-03	1.06E-04	3.70E-04	2.82E-04	4.66E-06	2.82E-05	1.66E-05
669	577458.6	4194047	6.74E-04	2.27E-03	1.77E-03	1.05E-04	3.66E-04	2.80E-04	4.61E-06	2.79E-05	1.64E-05
670	577465.9	4194053	6.65E-04	2.24E-03	1.75E-03	1.04E-04	3.61E-04	2.76E-04	4.55E-06	2.76E-05	1.62E-05
671	577473.3	4194058	6.55E-04	2.21E-03	1.72E-03	1.02E-04	3.56E-04	2.72E-04	4.48E-06	2.72E-05	1.59E-05
672	577480.7	4194063	6.44E-04	2.17E-03	1.69E-03	1.00E-04	3.50E-04	2.67E-04	4.41E-06	2.67E-05	1.57E-05
673	577488	4194069	6.32E-04	2.13E-03	1.66E-03	9.85E-05	3.43E-04	2.62E-04	4.32E-06	2.62E-05	1.54E-05
674	577495.4	4194074	6.19E-04	2.08E-03	1.63E-03	9.64E-05	3.36E-04	2.57E-04	4.23E-06	2.56E-05	1.51E-05
675	577502.8	4194079	6.06E-04	2.04E-03	1.59E-03	9.44E-05	3.29E-04	2.51E-04	4.14E-06	2.51E-05	1.47E-05
676	577510.1	4194085	5.92E-04	1.99E-03	1.56E-03	9.23E-05	3.21E-04	2.46E-04	4.05E-06	2.45E-05	1.44E-05
677	577517.5	4194090	5.79E-04	1.95E-03	1.52E-03	9.02E-05	3.14E-04	2.40E-04	3.96E-06	2.40E-05	1.41E-05
678	577524.9	4194095	5.65E-04	1.90E-03	1.48E-03	8.80E-05	3.07E-04	2.34E-04	3.86E-06	2.34E-05	1.37E-05
679	577532.2	4194101	5.51E-04	1.86E-03	1.45E-03	8.59E-05	2.99E-04	2.29E-04	3.77E-06	2.28E-05	1.34E-05
680	577539.6	4194106	5.38E-04	1.81E-03	1.41E-03	8.38E-05	2.92E-04	2.23E-04	3.68E-06	2.23E-05	1.31E-05
681	577547	4194111	5.24E-04	1.76E-03	1.38E-03	8.17E-05	2.84E-04	2.17E-04	3.58E-06	2.17E-05	1.28E-05
682	577554.3	4194116	5.10E-04	1.72E-03	1.34E-03	7.95E-05	2.77E-04	2.12E-04	3.49E-06	2.11E-05	1.24E-05
683	577563.3	4194131	5.04E-04	1.70E-03	1.32E-03	7.86E-05	2.74E-04	2.09E-04	3.45E-06	2.09E-05	1.23E-05
684	577564.9	4194140	5.13E-04	1.73E-03	1.35E-03	7.99E-05	2.78E-04	2.13E-04	3.51E-06	2.12E-05	1.25E-05
685	577568.1	4194158	5.28E-04	1.78E-03	1.39E-03	8.23E-05	2.87E-04	2.19E-04	3.61E-06	2.19E-05	1.28E-05
686	577569.7	4194166	5.35E-04	1.80E-03	1.41E-03	8.34E-05	2.91E-04	2.22E-04	3.66E-06	2.22E-05	1.30E-05
687	577571.3	4194175	5.42E-04	1.82E-03	1.42E-03	8.44E-05	2.94E-04	2.25E-04	3.70E-06	2.24E-05	1.32E-05
688	577574.4	4194193	5.52E-04	1.86E-03	1.45E-03	8.60E-05	3.00E-04	2.29E-04	3.78E-06	2.29E-05	1.34E-05
689	577576	4194202	5.56E-04	1.87E-03	1.46E-03	8.67E-05	3.02E-04	2.31E-04	3.80E-06	2.30E-05	1.35E-05
690	577582.4	4194238	5.57E-04	1.88E-03	1.46E-03	8.68E-05	3.02E-04	2.31E-04	3.81E-06	2.31E-05	1.36E-05
691	577584	4194247	5.42E-04	1.83E-03	1.42E-03	8.45E-05	2.94E-04	2.25E-04	3.71E-06	2.25E-05	1.32E-05
692	577587.2	4194265	5.15E-04	1.73E-03	1.35E-03	8.03E-05	2.80E-04	2.14E-04	3.52E-06	2.14E-05	1.25E-05
693	577588.8	4194274	5.03E-04	1.69E-03	1.32E-03	7.84E-05	2.73E-04	2.09E-04	3.44E-06	2.08E-05	1.22E-05
694	577590.4	4194283	4.90E-04	1.65E-03	1.29E-03	7.63E-05	2.66E-04	2.03E-04	3.35E-06	2.03E-05	1.19E-05
695	577593.5	4194301	4.69E-04	1.58E-03	1.23E-03	7.31E-05	2.54E-04	1.94E-04	3.21E-06	1.94E-05	1.14E-05
696	577595.1	4194309	4.58E-04	1.54E-03	1.20E-03	7.14E-05	2.49E-04	1.90E-04	3.13E-06	1.90E-05	1.11E-05
697	577596.7	4194318	4.47E-04	1.50E-03	1.17E-03	6.96E-05	2.43E-04	1.85E-04	3.06E-06	1.85E-05	1.09E-05
698	577598.3	4194327	4.36E-04	1.47E-03	1.14E-03	6.79E-05	2.37E-04	1.81E-04	2.98E-06	1.81E-05	1.06E-05
699	577384.9	4193994	6.22E-04	2.09E-03	1.63E-03	9.69E-05	3.38E-04	2.58E-04	4.25E-06	2.58E-05	1.51E-05
700	577375.9	4193992	6.18E-04	2.08E-03	1.62E-03	9.63E-05	3.35E-04	2.56E-04	4.23E-06	2.56E-05	1.50E-05
701	577366.8	4193990	6.12E-04	2.06E-03	1.61E-03	9.53E-05	3.32E-04	2.54E-04	4.18E-06	2.53E-05	1.49E-05
702	577357.8	4193988	6.04E-04	2.03E-03	1.59E-03	9.41E-05	3.28E-04	2.51E-04	4.13E-06	2.50E-05	1.47E-05
703	577348.8	4193986	5.96E-04	2.00E-03	1.56E-03	9.28E-05	3.23E-04	2.47E-04	4.07E-06	2.47E-05	1.45E-05
704	577339.7	4193983	5.86E-04	1.97E-03	1.54E-03	9.13E-05	3.18E-04	2.43E-04	4.01E-06	2.43E-05	1.42E-05
705	577394.6	4193990	5.96E-04	2.01E-03	1.57E-03	9.29E-05	3.24E-04	2.47E-04	4.08E-06	2.47E-05	1.45E-05
706	577401.9	4193995	6.11E-04	2.05E-03	1.60E-03	9.51E-05	3.31E-04	2.53E-04	4.18E-06	2.53E-05	1.49E-05
707	577409.2	4194001	6.23E-04	2.10E-03	1.64E-03	9.70E-05	3.38E-04	2.58E-04	4.26E-06	2.58E-05	1.52E-05
708	577416.5	4194006	6.33E-04	2.13E-03	1.66E-03	9.86E-05	3.43E-04	2.62E-04	4.33E-06	2.62E-05	1.54E-05
709	577423.8	4194011	6.40E-04	2.15E-03	1.68E-03	9.96E-05	3.47E-04	2.65E-04	4.37E-06	2.65E-05	1.56E-05
710	577431.2	4194016	6.44E-04	2.17E-03	1.69E-03	1.00E-04	3.49E-04	2.67E-04	4.40E-06	2.67E-05	1.57E-05
711	577438.5	4194022	6.46E-04	2.17E-03	1.70E-03	1.01E-04	3.50E-04	2.68E-04	4.42E-06	2.67E-05	1.57E-05
712	577445.8	4194027	6.45E-04	2.17E-03	1.69E-03	1.00E-04	3.50E-04	2.67E-04	4.41E-06	2.67E-05	1.57E-05
713	577453.1	4194032	6.42E-04	2.16E-03	1.69E-03	1.00E-04	3.48E-04	2.66E-04	4.39E-06	2.66E-05	1.56E-05
714	577460.4	4194037	6.37E-04	2.14E-03	1.67E-03	9.92E-05	3.45E-04	2.64E-04	4.35E-06	2.64E-05	1.55E-05
715	577467.7	4194043	6.30E-04	2.12E-03	1.65E-03	9.81E-05	3.42E-04	2.61E-04	4.31E-06	2.61E-05	1.53E-05
716	577475.1	4194048	6.21E-04	2.09E-03	1.63E-03	9.68E-05	3.37E-04	2.58E-04	4.25E-06	2.57E-05	1.51E-05
717	577482.4	4194053	6.12E-04	2.06E-03	1.61E-03	9.53E-05	3.32E-04	2.54E-04	4.18E-06	2.53E-05	1.49E-05
718	577489.7	4194058	6.01E-04	2.02E-03	1.58E-03	9.37E-05	3.26E-04	2.49E-04	4.11E-06	2.49E-05	1.46E-05
719	577497	4194064	5.90E-04	1.99E-03	1.55E-03	9.19E-05	3.20E-04	2.45E-04	4.03E-06	2.44E-05	1.44E-05
720	577504.3	4194069	5.78E-04	1.95E-03	1.52E-03	9.00E-05	3.14E-04	2.40E-04	3.95E-06	2.39E-05	1.41E-05
721	577511.6	4194074	5.65E-04	1.90E-03	1.48E-03	8.81E-05	3.07E-04	2.34E-04	3.87E-06	2.34E-05	1.38E-05
722	577519	4194080	5.53E-04	1.86E-03	1.45E-03	8.62E-05	3.00E-04	2.29E-04	3.78E-06	2.29E-05	1.35E-05
723	577526.3	4194085	5.41E-04	1.82E-03	1.42E-03	8.42E-05	2.93E-04	2.24E-04	3.70E-06	2.24E-05	1.32E-05
724	577533.6	4194090	5.28E-04	1.78E-03	1.39E-03	8.23E-05	2.87E-04	2.19E-04	3.61E-06	2.19E-05	1.29E-05
725	577540.9	4194095	5.16E-04	1.74E-03	1.35E-03	8.04E-05	2.80E-04	2.14E-04	3.53E-06	2.14E-05	1.25E-05
726	577548.2	4194101	5.04E-04	1.69E-03	1.32E-03	7.85E-05	2.73E-04	2.09E-04	3.44E-06	2.09E-05	1.22E-05
727	577555.5	4194106	4.91E-04	1.65E-03	1.29E-03	7.65E-05	2.66E-04	2.04E-04	3.36E-06	2.03E-05	1.19E-05
728	577562.9	4194111	4.78E-04	1.61E-03	1.25E-03	7.44E-05	2.59E-04	1.98E-04	3.27E-06	1.98E-05	1.16E-05

729	577571.7	4194125	4.72E-04	1.59E-03	1.24E-03	7.36E-05	2.56E-04	1.96E-04	3.23E-06	1.96E-05	1.15E-05
730	577573.3	4194134	4.80E-04	1.62E-03	1.26E-03	7.48E-05	2.61E-04	1.99E-04	3.28E-06	1.99E-05	1.17E-05
731	577576.5	4194152	4.94E-04	1.66E-03	1.30E-03	7.70E-05	2.68E-04	2.05E-04	3.38E-06	2.05E-05	1.20E-05
732	577579.7	4194170	5.07E-04	1.71E-03	1.33E-03	7.90E-05	2.75E-04	2.10E-04	3.47E-06	2.10E-05	1.23E-05
733	577582.8	4194187	5.17E-04	1.74E-03	1.36E-03	8.06E-05	2.81E-04	2.14E-04	3.54E-06	2.14E-05	1.26E-05
734	577586	4194205	5.24E-04	1.76E-03	1.38E-03	8.17E-05	2.84E-04	2.17E-04	3.58E-06	2.17E-05	1.28E-05
735	577592.3	4194241	5.22E-04	1.76E-03	1.37E-03	8.13E-05	2.83E-04	2.16E-04	3.57E-06	2.16E-05	1.27E-05
736	577595.5	4194258	4.94E-04	1.66E-03	1.30E-03	7.69E-05	2.68E-04	2.05E-04	3.38E-06	2.04E-05	1.20E-05
737	577598.6	4194276	4.71E-04	1.59E-03	1.24E-03	7.34E-05	2.56E-04	1.95E-04	3.22E-06	1.95E-05	1.15E-05
738	577601.8	4194294	4.49E-04	1.51E-03	1.18E-03	7.00E-05	2.44E-04	1.86E-04	3.07E-06	1.86E-05	1.09E-05
739	577605	4194312	4.30E-04	1.45E-03	1.13E-03	6.70E-05	2.33E-04	1.78E-04	2.94E-06	1.78E-05	1.05E-05
740	577606.5	4194321	4.20E-04	1.41E-03	1.10E-03	6.55E-05	2.28E-04	1.74E-04	2.87E-06	1.74E-05	1.02E-05
741	577608.1	4194330	4.11E-04	1.38E-03	1.08E-03	6.40E-05	2.23E-04	1.70E-04	2.81E-06	1.70E-05	9.99E-06
742	577387.3	4193985	5.81E-04	1.95E-03	1.52E-03	9.05E-05	3.15E-04	2.41E-04	3.97E-06	2.41E-05	1.41E-05
743	577378.2	4193982	5.76E-04	1.94E-03	1.51E-03	8.98E-05	3.13E-04	2.39E-04	3.94E-06	2.39E-05	1.40E-05
744	577369.2	4193980	5.70E-04	1.92E-03	1.50E-03	8.89E-05	3.10E-04	2.37E-04	3.90E-06	2.36E-05	1.39E-05
745	577360.2	4193978	5.63E-04	1.90E-03	1.48E-03	8.78E-05	3.06E-04	2.34E-04	3.85E-06	2.33E-05	1.37E-05
746	577351.1	4193976	5.55E-04	1.87E-03	1.46E-03	8.65E-05	3.01E-04	2.30E-04	3.80E-06	2.30E-05	1.35E-05
747	577342.1	4193974	5.46E-04	1.84E-03	1.43E-03	8.51E-05	2.97E-04	2.27E-04	3.74E-06	2.26E-05	1.33E-05
748	577396.9	4193980	5.58E-04	1.88E-03	1.46E-03	8.69E-05	3.03E-04	2.31E-04	3.81E-06	2.31E-05	1.36E-05
749	577404.2	4193985	5.71E-04	1.92E-03	1.50E-03	8.89E-05	3.10E-04	2.37E-04	3.90E-06	2.36E-05	1.39E-05
750	577418.7	4193996	5.92E-04	1.99E-03	1.56E-03	9.23E-05	3.21E-04	2.46E-04	4.05E-06	2.45E-05	1.44E-05
751	577426	4194001	6.00E-04	2.02E-03	1.57E-03	9.34E-05	3.25E-04	2.49E-04	4.10E-06	2.48E-05	1.46E-05
752	577440.5	4194012	6.07E-04	2.04E-03	1.59E-03	9.46E-05	3.29E-04	2.52E-04	4.15E-06	2.51E-05	1.48E-05
753	577455.1	4194022	6.05E-04	2.04E-03	1.59E-03	9.43E-05	3.29E-04	2.51E-04	4.14E-06	2.51E-05	1.47E-05
754	577469.6	4194033	5.96E-04	2.01E-03	1.56E-03	9.28E-05	3.23E-04	2.47E-04	4.07E-06	2.47E-05	1.45E-05
755	577476.9	4194038	5.89E-04	1.98E-03	1.55E-03	9.18E-05	3.20E-04	2.44E-04	4.03E-06	2.44E-05	1.43E-05
756	577491.4	4194048	5.72E-04	1.93E-03	1.50E-03	8.92E-05	3.11E-04	2.37E-04	3.91E-06	2.37E-05	1.39E-05
757	577498.7	4194054	5.62E-04	1.89E-03	1.48E-03	8.76E-05	3.05E-04	2.33E-04	3.85E-06	2.33E-05	1.37E-05
758	577513.2	4194064	5.41E-04	1.82E-03	1.42E-03	8.42E-05	2.93E-04	2.24E-04	3.70E-06	2.24E-05	1.32E-05
759	577520.5	4194069	5.29E-04	1.78E-03	1.39E-03	8.25E-05	2.87E-04	2.19E-04	3.62E-06	2.19E-05	1.29E-05
760	577535	4194080	5.06E-04	1.70E-03	1.33E-03	7.88E-05	2.75E-04	2.10E-04	3.46E-06	2.10E-05	1.23E-05
761	577549.6	4194090	4.83E-04	1.63E-03	1.27E-03	7.53E-05	2.62E-04	2.00E-04	3.31E-06	2.00E-05	1.18E-05
762	577564.1	4194101	4.60E-04	1.55E-03	1.21E-03	7.16E-05	2.49E-04	1.91E-04	3.14E-06	1.90E-05	1.12E-05
763	577571.4	4194106	4.47E-04	1.51E-03	1.17E-03	6.97E-05	2.43E-04	1.85E-04	3.06E-06	1.85E-05	1.09E-05
764	577580.2	4194120	4.43E-04	1.49E-03	1.16E-03	6.90E-05	2.40E-04	1.84E-04	3.03E-06	1.83E-05	1.08E-05
765	577583.3	4194138	4.58E-04	1.54E-03	1.20E-03	7.13E-05	2.48E-04	1.90E-04	3.13E-06	1.90E-05	1.11E-05
766	577584.9	4194146	4.64E-04	1.56E-03	1.22E-03	7.23E-05	2.52E-04	1.92E-04	3.17E-06	1.92E-05	1.13E-05
767	577588.1	4194164	4.75E-04	1.60E-03	1.25E-03	7.41E-05	2.58E-04	1.97E-04	3.25E-06	1.97E-05	1.16E-05
768	577591.2	4194182	4.85E-04	1.63E-03	1.27E-03	7.56E-05	2.63E-04	2.01E-04	3.32E-06	2.01E-05	1.18E-05
769	577594.3	4194199	4.92E-04	1.66E-03	1.29E-03	7.66E-05	2.67E-04	2.04E-04	3.36E-06	2.04E-05	1.20E-05
770	577595.9	4194208	4.94E-04	1.66E-03	1.30E-03	7.70E-05	2.68E-04	2.05E-04	3.38E-06	2.05E-05	1.20E-05
771	577602.2	4194243	4.88E-04	1.64E-03	1.28E-03	7.61E-05	2.65E-04	2.02E-04	3.34E-06	2.02E-05	1.19E-05
772	577605.3	4194261	4.63E-04	1.56E-03	1.22E-03	7.22E-05	2.52E-04	1.92E-04	3.17E-06	1.92E-05	1.13E-05
773	577606.9	4194270	4.53E-04	1.52E-03	1.19E-03	7.06E-05	2.46E-04	1.88E-04	3.10E-06	1.88E-05	1.10E-05
774	577610.1	4194288	4.30E-04	1.45E-03	1.13E-03	6.70E-05	2.33E-04	1.78E-04	2.94E-06	1.78E-05	1.05E-05
775	577613.2	4194305	4.14E-04	1.39E-03	1.09E-03	6.44E-05	2.24E-04	1.71E-04	2.83E-06	1.71E-05	1.01E-05
776	577614.8	4194314	4.05E-04	1.36E-03	1.06E-03	6.31E-05	2.20E-04	1.68E-04	2.77E-06	1.68E-05	9.86E-06
777	577616.3	4194323	3.98E-04	1.34E-03	1.04E-03	6.20E-05	2.16E-04	1.65E-04	2.72E-06	1.65E-05	9.67E-06
778	577380.6	4193973	5.39E-04	1.81E-03	1.41E-03	8.39E-05	2.92E-04	2.23E-04	3.68E-06	2.23E-05	1.31E-05
779	577371.6	4193971	5.33E-04	1.79E-03	1.40E-03	8.30E-05	2.89E-04	2.21E-04	3.64E-06	2.21E-05	1.30E-05
780	577362.5	4193968	5.26E-04	1.77E-03	1.38E-03	8.20E-05	2.86E-04	2.18E-04	3.60E-06	2.18E-05	1.28E-05
781	577353.5	4193966	5.19E-04	1.75E-03	1.36E-03	8.08E-05	2.81E-04	2.15E-04	3.55E-06	2.15E-05	1.26E-05
782	577344.5	4193964	5.11E-04	1.72E-03	1.34E-03	7.96E-05	2.77E-04	2.12E-04	3.49E-06	2.12E-05	1.24E-05
783	577399.5	4193971	5.23E-04	1.76E-03	1.37E-03	8.15E-05	2.84E-04	2.17E-04	3.58E-06	2.17E-05	1.27E-05
784	577407	4193976	5.36E-04	1.80E-03	1.41E-03	8.35E-05	2.91E-04	2.22E-04	3.67E-06	2.22E-05	1.30E-05
785	577414.5	4193981	5.48E-04	1.84E-03	1.44E-03	8.53E-05	2.97E-04	2.27E-04	3.74E-06	2.27E-05	1.33E-05
786	577422	4193987	5.57E-04	1.87E-03	1.46E-03	8.68E-05	3.02E-04	2.31E-04	3.81E-06	2.31E-05	1.35E-05
787	577429.5	4193992	5.64E-04	1.90E-03	1.48E-03	8.79E-05	3.06E-04	2.34E-04	3.86E-06	2.34E-05	1.37E-05
788	577437	4193998	5.69E-04	1.92E-03	1.50E-03	8.87E-05	3.09E-04	2.36E-04	3.89E-06	2.36E-05	1.38E-05
789	577444.5	4194003	5.72E-04	1.93E-03	1.50E-03	8.91E-05	3.10E-04	2.37E-04	3.91E-06	2.37E-05	1.39E-05

790	577452	4194009	5.72E-04	1.93E-03	1.50E-03	8.92E-05	3.11E-04	2.37E-04	3.91E-06	2.37E-05	1.39E-05
791	577459.5	4194014	5.71E-04	1.92E-03	1.50E-03	8.89E-05	3.10E-04	2.37E-04	3.90E-06	2.36E-05	1.39E-05
792	577467	4194019	5.67E-04	1.91E-03	1.49E-03	8.84E-05	3.08E-04	2.35E-04	3.88E-06	2.35E-05	1.38E-05
793	577474.5	4194025	5.62E-04	1.89E-03	1.48E-03	8.76E-05	3.05E-04	2.33E-04	3.84E-06	2.33E-05	1.37E-05
794	577482	4194030	5.55E-04	1.87E-03	1.46E-03	8.65E-05	3.01E-04	2.30E-04	3.80E-06	2.30E-05	1.35E-05
795	577489.5	4194036	5.48E-04	1.84E-03	1.44E-03	8.54E-05	2.97E-04	2.27E-04	3.75E-06	2.27E-05	1.33E-05
796	577497	4194041	5.40E-04	1.82E-03	1.42E-03	8.41E-05	2.93E-04	2.24E-04	3.69E-06	2.24E-05	1.31E-05
797	577504.6	4194046	5.31E-04	1.79E-03	1.39E-03	8.27E-05	2.88E-04	2.20E-04	3.63E-06	2.20E-05	1.29E-05
798	577512.1	4194052	5.21E-04	1.75E-03	1.37E-03	8.12E-05	2.83E-04	2.16E-04	3.56E-06	2.16E-05	1.27E-05
799	577519.6	4194057	5.10E-04	1.72E-03	1.34E-03	7.95E-05	2.77E-04	2.12E-04	3.49E-06	2.11E-05	1.24E-05
800	577527.1	4194063	5.00E-04	1.68E-03	1.31E-03	7.78E-05	2.71E-04	2.07E-04	3.42E-06	2.07E-05	1.22E-05
801	577534.6	4194068	4.88E-04	1.64E-03	1.28E-03	7.61E-05	2.65E-04	2.02E-04	3.34E-06	2.02E-05	1.19E-05
802	577542.1	4194073	4.77E-04	1.61E-03	1.25E-03	7.43E-05	2.59E-04	1.98E-04	3.26E-06	1.98E-05	1.16E-05
803	577549.6	4194079	4.66E-04	1.57E-03	1.22E-03	7.26E-05	2.53E-04	1.93E-04	3.19E-06	1.93E-05	1.13E-05
804	577557.1	4194084	4.55E-04	1.53E-03	1.19E-03	7.09E-05	2.47E-04	1.89E-04	3.11E-06	1.88E-05	1.11E-05
805	577564.6	4194090	4.44E-04	1.49E-03	1.16E-03	6.91E-05	2.41E-04	1.84E-04	3.03E-06	1.84E-05	1.08E-05
806	577572.1	4194095	4.32E-04	1.45E-03	1.13E-03	6.73E-05	2.34E-04	1.79E-04	2.95E-06	1.79E-05	1.05E-05
807	577579.6	4194100	4.20E-04	1.41E-03	1.10E-03	6.55E-05	2.28E-04	1.74E-04	2.87E-06	1.74E-05	1.02E-05
808	577588.7	4194115	4.16E-04	1.40E-03	1.09E-03	6.48E-05	2.26E-04	1.73E-04	2.85E-06	1.72E-05	1.01E-05
809	577590.3	4194124	4.23E-04	1.42E-03	1.11E-03	6.60E-05	2.30E-04	1.76E-04	2.89E-06	1.75E-05	1.03E-05
810	577592	4194133	4.30E-04	1.45E-03	1.13E-03	6.70E-05	2.33E-04	1.78E-04	2.94E-06	1.78E-05	1.05E-05
811	577593.6	4194142	4.36E-04	1.47E-03	1.15E-03	6.80E-05	2.37E-04	1.81E-04	2.98E-06	1.81E-05	1.06E-05
812	577595.2	4194151	4.42E-04	1.49E-03	1.16E-03	6.89E-05	2.40E-04	1.83E-04	3.02E-06	1.83E-05	1.08E-05
813	577596.8	4194160	4.47E-04	1.51E-03	1.18E-03	6.97E-05	2.43E-04	1.86E-04	3.06E-06	1.85E-05	1.09E-05
814	577598.4	4194170	4.52E-04	1.52E-03	1.19E-03	7.05E-05	2.45E-04	1.88E-04	3.09E-06	1.87E-05	1.10E-05
815	577600.1	4194179	4.57E-04	1.54E-03	1.20E-03	7.12E-05	2.48E-04	1.89E-04	3.12E-06	1.89E-05	1.11E-05
816	577601.7	4194188	4.60E-04	1.55E-03	1.21E-03	7.17E-05	2.50E-04	1.91E-04	3.15E-06	1.91E-05	1.12E-05
817	577603.3	4194197	4.63E-04	1.56E-03	1.22E-03	7.22E-05	2.51E-04	1.92E-04	3.17E-06	1.92E-05	1.13E-05
818	577604.9	4194206	4.66E-04	1.57E-03	1.22E-03	7.26E-05	2.53E-04	1.93E-04	3.18E-06	1.93E-05	1.13E-05
819	577611.4	4194242	4.62E-04	1.55E-03	1.21E-03	7.20E-05	2.51E-04	1.91E-04	3.16E-06	1.91E-05	1.12E-05
820	577613	4194251	4.50E-04	1.52E-03	1.18E-03	7.01E-05	2.44E-04	1.87E-04	3.08E-06	1.86E-05	1.10E-05
821	577614.7	4194261	4.40E-04	1.48E-03	1.15E-03	6.85E-05	2.39E-04	1.82E-04	3.01E-06	1.82E-05	1.07E-05
822	577616.3	4194270	4.30E-04	1.45E-03	1.13E-03	6.70E-05	2.33E-04	1.78E-04	2.94E-06	1.78E-05	1.05E-05
823	577617.9	4194279	4.21E-04	1.42E-03	1.10E-03	6.55E-05	2.28E-04	1.74E-04	2.88E-06	1.74E-05	1.02E-05
824	577619.5	4194288	4.11E-04	1.38E-03	1.08E-03	6.41E-05	2.23E-04	1.70E-04	2.81E-06	1.70E-05	1.00E-05
825	577621.2	4194297	4.05E-04	1.36E-03	1.06E-03	6.30E-05	2.20E-04	1.68E-04	2.77E-06	1.68E-05	9.84E-06
826	577622.8	4194306	3.97E-04	1.34E-03	1.04E-03	6.19E-05	2.16E-04	1.65E-04	2.72E-06	1.65E-05	9.66E-06
827	577624.4	4194315	3.89E-04	1.31E-03	1.02E-03	6.06E-05	2.11E-04	1.61E-04	2.66E-06	1.61E-05	9.46E-06
828	577626	4194324	3.81E-04	1.28E-03	1.00E-03	5.94E-05	2.07E-04	1.58E-04	2.61E-06	1.58E-05	9.27E-06
829	577627.6	4194333	3.73E-04	1.25E-03	9.78E-04	5.80E-05	2.02E-04	1.54E-04	2.55E-06	1.54E-05	9.06E-06
830	577392	4193965	5.09E-04	1.71E-03	1.34E-03	7.93E-05	2.76E-04	2.11E-04	3.48E-06	2.11E-05	1.24E-05
831	577383	4193963	5.04E-04	1.70E-03	1.32E-03	7.86E-05	2.74E-04	2.09E-04	3.45E-06	2.09E-05	1.23E-05
832	577373.9	4193961	4.99E-04	1.68E-03	1.31E-03	7.77E-05	2.71E-04	2.07E-04	3.41E-06	2.07E-05	1.21E-05
833	577364.9	4193959	4.92E-04	1.66E-03	1.29E-03	7.67E-05	2.67E-04	2.04E-04	3.37E-06	2.04E-05	1.20E-05
834	577355.9	4193956	4.86E-04	1.63E-03	1.27E-03	7.56E-05	2.63E-04	2.01E-04	3.32E-06	2.01E-05	1.18E-05
835	577346.8	4193954	4.78E-04	1.61E-03	1.26E-03	7.45E-05	2.59E-04	1.98E-04	3.27E-06	1.98E-05	1.16E-05
836	577260.5	4194242	2.17E-02	7.29E-02	5.69E-02	3.37E-03	1.18E-02	8.98E-03	1.48E-04	8.97E-04	5.27E-04
837	577262.7	4194232	1.77E-02	5.94E-02	4.63E-02	2.75E-03	9.58E-03	7.32E-03	1.21E-04	7.31E-04	4.29E-04
838	577265	4194223	1.44E-02	4.83E-02	3.77E-02	2.24E-03	7.79E-03	5.96E-03	9.82E-05	5.95E-04	3.49E-04
839	577267.3	4194213	1.10E-02	3.69E-02	2.88E-02	1.71E-03	5.95E-03	4.54E-03	7.49E-05	4.54E-04	2.67E-04
840	577269.6	4194203	8.39E-03	2.82E-02	2.20E-02	1.31E-03	4.55E-03	3.48E-03	5.74E-05	3.48E-04	2.04E-04
841	577271.9	4194193	6.66E-03	2.24E-02	1.75E-02	1.04E-03	3.61E-03	2.76E-03	4.56E-05	2.76E-04	1.62E-04
842	577274.2	4194184	5.51E-03	1.85E-02	1.45E-02	8.58E-04	2.99E-03	2.28E-03	3.77E-05	2.28E-04	1.34E-04
843	577281	4194155	3.36E-03	1.13E-02	8.83E-03	5.24E-04	1.82E-03	1.39E-03	2.30E-05	1.39E-04	8.18E-05
844	577283.3	4194145	2.92E-03	9.82E-03	7.66E-03	4.54E-04	1.58E-03	1.21E-03	1.99E-05	1.21E-04	7.10E-05
845	577285.6	4194135	2.55E-03	8.58E-03	6.69E-03	3.97E-04	1.38E-03	1.06E-03	1.74E-05	1.06E-04	6.20E-05
846	577295.4	4194127	2.31E-03	7.77E-03	6.06E-03	3.60E-04	1.25E-03	9.57E-04	1.58E-05	9.56E-05	5.61E-05
847	577280.3	4194124	2.16E-03	7.28E-03	5.68E-03	3.37E-04	1.17E-03	8.97E-04	1.48E-05	8.96E-05	5.26E-05
848	577297.7	4194117	2.04E-03	6.86E-03	5.36E-03	3.18E-04	1.11E-03	8.46E-04	1.39E-05	8.45E-05	4.96E-05
849	577282.5	4194114	1.92E-03	6.45E-03	5.03E-03	2.99E-04	1.04E-03	7.95E-04	1.31E-05	7.94E-05	4.66E-05
850	577300	4194108	1.81E-03	6.11E-03	4.76E-03	2.83E-04	9.84E-04	7.52E-04	1.24E-05	7.52E-05	4.41E-05

851	577284.8	4194104	1.71E-03	5.76E-03	4.49E-03	2.67E-04	9.28E-04	7.09E-04	1.17E-05	7.09E-05	4.16E-05
852	577302.2	4194098	1.62E-03	5.46E-03	4.26E-03	2.53E-04	8.81E-04	6.73E-04	1.11E-05	6.72E-05	3.95E-05
853	577287.1	4194094	1.54E-03	5.17E-03	4.04E-03	2.39E-04	8.34E-04	6.37E-04	1.05E-05	6.37E-05	3.74E-05
854	577304.5	4194088	1.46E-03	4.91E-03	3.83E-03	2.27E-04	7.91E-04	6.05E-04	9.97E-06	6.04E-05	3.55E-05
855	577289.4	4194085	1.39E-03	4.67E-03	3.64E-03	2.16E-04	7.52E-04	5.75E-04	9.48E-06	5.74E-05	3.37E-05
856	577306.8	4194078	1.32E-03	4.43E-03	3.46E-03	2.05E-04	7.14E-04	5.46E-04	9.00E-06	5.45E-05	3.20E-05
857	577291.7	4194075	1.26E-03	4.23E-03	3.30E-03	1.96E-04	6.81E-04	5.21E-04	8.59E-06	5.20E-05	3.05E-05
858	577309.1	4194069	1.19E-03	4.02E-03	3.14E-03	1.86E-04	6.48E-04	4.95E-04	8.17E-06	4.95E-05	2.90E-05
859	577294	4194065	1.14E-03	3.84E-03	3.00E-03	1.78E-04	6.20E-04	4.74E-04	7.81E-06	4.73E-05	2.78E-05
860	577311.4	4194059	1.09E-03	3.66E-03	2.86E-03	1.70E-04	5.90E-04	4.51E-04	7.44E-06	4.51E-05	2.65E-05
861	577296.2	4194055	1.04E-03	3.51E-03	2.74E-03	1.62E-04	5.66E-04	4.32E-04	7.13E-06	4.32E-05	2.54E-05
862	577313.7	4194049	9.95E-04	3.35E-03	2.61E-03	1.55E-04	5.40E-04	4.12E-04	6.80E-06	4.12E-05	2.42E-05
863	577298.5	4194046	9.55E-04	3.21E-03	2.51E-03	1.49E-04	5.18E-04	3.96E-04	6.53E-06	3.96E-05	2.32E-05
864	577315.9	4194039	9.12E-04	3.07E-03	2.40E-03	1.42E-04	4.95E-04	3.78E-04	6.24E-06	3.78E-05	2.22E-05
865	577300.8	4194036	8.77E-04	2.95E-03	2.30E-03	1.37E-04	4.76E-04	3.64E-04	6.00E-06	3.63E-05	2.13E-05
866	577318.2	4194030	8.39E-04	2.82E-03	2.20E-03	1.31E-04	4.55E-04	3.48E-04	5.74E-06	3.48E-05	2.04E-05
867	577303.1	4194026	8.08E-04	2.72E-03	2.12E-03	1.26E-04	4.38E-04	3.35E-04	5.53E-06	3.35E-05	1.97E-05
868	577320.5	4194020	7.74E-04	2.61E-03	2.03E-03	1.21E-04	4.20E-04	3.21E-04	5.29E-06	3.21E-05	1.88E-05
869	577305.4	4194016	7.46E-04	2.51E-03	1.96E-03	1.16E-04	4.05E-04	3.09E-04	5.11E-06	3.09E-05	1.82E-05
870	577322.8	4194010	7.16E-04	2.41E-03	1.88E-03	1.12E-04	3.88E-04	2.97E-04	4.90E-06	2.97E-05	1.74E-05
871	577307.6	4194007	6.91E-04	2.33E-03	1.82E-03	1.08E-04	3.75E-04	2.87E-04	4.73E-06	2.86E-05	1.68E-05
872	577325.1	4194000	6.64E-04	2.23E-03	1.74E-03	1.03E-04	3.60E-04	2.75E-04	4.54E-06	2.75E-05	1.61E-05
873	577309.9	4193997	6.42E-04	2.16E-03	1.68E-03	1.00E-04	3.48E-04	2.66E-04	4.39E-06	2.66E-05	1.56E-05
874	577327.3	4193991	6.17E-04	2.08E-03	1.62E-03	9.61E-05	3.35E-04	2.56E-04	4.22E-06	2.55E-05	1.50E-05
875	577312.2	4193987	5.97E-04	2.01E-03	1.57E-03	9.30E-05	3.24E-04	2.47E-04	4.08E-06	2.47E-05	1.45E-05
876	577329.6	4193981	5.74E-04	1.93E-03	1.51E-03	8.95E-05	3.12E-04	2.38E-04	3.93E-06	2.38E-05	1.40E-05
877	577314.5	4193977	5.57E-04	1.87E-03	1.46E-03	8.67E-05	3.02E-04	2.31E-04	3.81E-06	2.31E-05	1.35E-05
878	577331.9	4193971	5.36E-04	1.80E-03	1.41E-03	8.35E-05	2.91E-04	2.22E-04	3.67E-06	2.22E-05	1.30E-05
879	577316.8	4193968	5.20E-04	1.75E-03	1.37E-03	8.11E-05	2.82E-04	2.16E-04	3.56E-06	2.16E-05	1.27E-05
880	577334.2	4193962	5.01E-04	1.69E-03	1.32E-03	7.81E-05	2.72E-04	2.08E-04	3.43E-06	2.08E-05	1.22E-05
881	577319	4193958	4.87E-04	1.64E-03	1.28E-03	7.59E-05	2.64E-04	2.02E-04	3.33E-06	2.02E-05	1.19E-05
882	577336.5	4193952	4.70E-04	1.58E-03	1.23E-03	7.32E-05	2.55E-04	1.95E-04	3.21E-06	1.95E-05	1.14E-05
883	577321.3	4193948	4.57E-04	1.54E-03	1.20E-03	7.12E-05	2.48E-04	1.90E-04	3.13E-06	1.89E-05	1.11E-05
884	577232.1	4194246	1.15E-02	3.87E-02	3.02E-02	1.79E-03	6.24E-03	4.77E-03	7.86E-05	4.76E-04	2.80E-04
885	577243.3	4194238	1.36E-02	4.59E-02	3.58E-02	2.12E-03	7.39E-03	5.65E-03	9.32E-05	5.64E-04	3.31E-04
886	577234.1	4194236	1.09E-02	3.67E-02	2.87E-02	1.70E-03	5.92E-03	4.52E-03	7.46E-05	4.52E-04	2.65E-04
887	577245.3	4194229	1.20E-02	4.05E-02	3.16E-02	1.87E-03	6.53E-03	4.99E-03	8.23E-05	4.98E-04	2.93E-04
888	577236.2	4194227	9.98E-03	3.36E-02	2.62E-02	1.56E-03	5.42E-03	4.14E-03	6.83E-05	4.14E-04	2.43E-04
889	577247.4	4194219	1.06E-02	3.58E-02	2.79E-02	1.66E-03	5.77E-03	4.41E-03	7.27E-05	4.40E-04	2.59E-04
890	577238.2	4194217	9.13E-03	3.07E-02	2.40E-02	1.42E-03	4.96E-03	3.79E-03	6.24E-05	3.78E-04	2.22E-04
891	577249.4	4194209	8.95E-03	3.01E-02	2.35E-02	1.39E-03	4.86E-03	3.71E-03	6.12E-05	3.71E-04	2.18E-04
892	577240.3	4194207	7.94E-03	2.67E-02	2.08E-02	1.24E-03	4.31E-03	3.29E-03	5.43E-05	3.29E-04	1.93E-04
893	577260.7	4194201	7.69E-03	2.59E-02	2.02E-02	1.20E-03	4.17E-03	3.19E-03	5.26E-05	3.19E-04	1.87E-04
894	577251.5	4194199	6.98E-03	2.35E-02	1.83E-02	1.09E-03	3.79E-03	2.89E-03	4.77E-05	2.89E-04	1.70E-04
895	577242.3	4194197	6.34E-03	2.13E-02	1.66E-02	9.87E-04	3.44E-03	2.63E-03	4.33E-05	2.62E-04	1.54E-04
896	577262.7	4194191	6.17E-03	2.08E-02	1.62E-02	9.61E-04	3.35E-03	2.56E-03	4.22E-05	2.55E-04	1.50E-04
897	577253.6	4194189	5.68E-03	1.91E-02	1.49E-02	8.86E-04	3.08E-03	2.36E-03	3.89E-05	2.35E-04	1.38E-04
898	577244.4	4194187	5.25E-03	1.77E-02	1.38E-02	8.19E-04	2.85E-03	2.18E-03	3.59E-05	2.18E-04	1.28E-04
899	577264.8	4194182	5.14E-03	1.73E-02	1.35E-02	8.01E-04	2.79E-03	2.13E-03	3.51E-05	2.13E-04	1.25E-04
900	577255.6	4194180	4.78E-03	1.61E-02	1.26E-02	7.45E-04	2.60E-03	1.98E-03	3.27E-05	1.98E-04	1.16E-04
901	577246.4	4194178	4.44E-03	1.49E-02	1.17E-02	6.92E-04	2.41E-03	1.84E-03	3.04E-05	1.84E-04	1.08E-04
902	577270.9	4194152	3.18E-03	1.07E-02	8.34E-03	4.95E-04	1.72E-03	1.32E-03	2.17E-05	1.32E-04	7.73E-05
903	577261.8	4194150	3.01E-03	1.01E-02	7.90E-03	4.68E-04	1.63E-03	1.25E-03	2.06E-05	1.25E-04	7.31E-05
904	577252.6	4194148	2.84E-03	9.54E-03	7.45E-03	4.42E-04	1.54E-03	1.18E-03	1.94E-05	1.17E-04	6.90E-05
905	577273	4194142	2.76E-03	9.29E-03	7.25E-03	4.30E-04	1.50E-03	1.14E-03	1.89E-05	1.14E-04	6.72E-05
906	577263.8	4194140	2.62E-03	8.82E-03	6.88E-03	4.08E-04	1.42E-03	1.09E-03	1.79E-05	1.09E-04	6.38E-05
907	577254.7	4194139	2.48E-03	8.35E-03	6.51E-03	3.86E-04	1.35E-03	1.03E-03	1.70E-05	1.03E-04	6.03E-05
908	577275.1	4194133	2.42E-03	8.14E-03	6.35E-03	3.77E-04	1.31E-03	1.00E-03	1.65E-05	1.00E-04	5.88E-05
909	577265.9	4194131	2.30E-03	7.75E-03	6.05E-03	3.59E-04	1.25E-03	9.55E-04	1.57E-05	9.54E-05	5.60E-05
910	577256.7	4194129	2.19E-03	7.36E-03	5.74E-03	3.41E-04	1.19E-03	9.06E-04	1.49E-05	9.05E-05	5.32E-05
911	577267.9	4194121	2.03E-03	6.85E-03	5.34E-03	3.17E-04	1.10E-03	8.44E-04	1.39E-05	8.43E-05	4.95E-05

912	577258.8	4194119	1.94E-03	6.52E-03	5.09E-03	3.02E-04	1.05E-03	8.04E-04	1.33E-05	8.03E-05	4.72E-05
913	577270	4194111	1.81E-03	6.09E-03	4.75E-03	2.82E-04	9.82E-04	7.50E-04	1.24E-05	7.50E-05	4.40E-05
914	577260.8	4194109	1.73E-03	5.82E-03	4.54E-03	2.69E-04	9.39E-04	7.17E-04	1.18E-05	7.16E-05	4.21E-05
915	577272.1	4194101	1.62E-03	5.45E-03	4.25E-03	2.52E-04	8.79E-04	6.72E-04	1.11E-05	6.71E-05	3.94E-05
916	577262.9	4194099	1.55E-03	5.23E-03	4.08E-03	2.42E-04	8.43E-04	6.44E-04	1.06E-05	6.44E-05	3.78E-05
917	577274.1	4194092	1.46E-03	4.91E-03	3.83E-03	2.27E-04	7.92E-04	6.05E-04	9.98E-06	6.05E-05	3.55E-05
918	577264.9	4194090	1.40E-03	4.72E-03	3.69E-03	2.19E-04	7.62E-04	5.82E-04	9.60E-06	5.81E-05	3.41E-05
919	577276.2	4194082	1.32E-03	4.44E-03	3.47E-03	2.06E-04	7.17E-04	5.47E-04	9.03E-06	5.47E-05	3.21E-05
920	577267	4194080	1.27E-03	4.28E-03	3.34E-03	1.98E-04	6.91E-04	5.28E-04	8.70E-06	5.27E-05	3.10E-05
921	577278.2	4194072	1.20E-03	4.04E-03	3.15E-03	1.87E-04	6.51E-04	4.97E-04	8.20E-06	4.97E-05	2.92E-05
922	577269.1	4194070	1.16E-03	3.90E-03	3.04E-03	1.80E-04	6.29E-04	4.80E-04	7.92E-06	4.80E-05	2.82E-05
923	577280.3	4194062	1.09E-03	3.68E-03	2.87E-03	1.70E-04	5.93E-04	4.53E-04	7.48E-06	4.53E-05	2.66E-05
924	577271.1	4194060	1.06E-03	3.56E-03	2.78E-03	1.65E-04	5.74E-04	4.39E-04	7.23E-06	4.38E-05	2.57E-05
925	577282.3	4194052	1.00E-03	3.36E-03	2.63E-03	1.56E-04	5.42E-04	4.14E-04	6.84E-06	4.14E-05	2.43E-05
926	577273.2	4194050	9.69E-04	3.26E-03	2.55E-03	1.51E-04	5.26E-04	4.02E-04	6.63E-06	4.02E-05	2.36E-05
927	577284.4	4194043	9.17E-04	3.09E-03	2.41E-03	1.43E-04	4.98E-04	3.80E-04	6.27E-06	3.80E-05	2.23E-05
928	577275.2	4194041	8.90E-04	3.00E-03	2.34E-03	1.39E-04	4.83E-04	3.69E-04	6.09E-06	3.69E-05	2.17E-05
929	577286.4	4194033	8.43E-04	2.84E-03	2.21E-03	1.31E-04	4.57E-04	3.49E-04	5.76E-06	3.49E-05	2.05E-05
930	577277.3	4194031	8.20E-04	2.76E-03	2.15E-03	1.28E-04	4.45E-04	3.40E-04	5.61E-06	3.40E-05	1.99E-05
931	577288.5	4194023	7.77E-04	2.62E-03	2.04E-03	1.21E-04	4.22E-04	3.22E-04	5.32E-06	3.22E-05	1.89E-05
932	577279.3	4194021	7.57E-04	2.55E-03	1.99E-03	1.18E-04	4.11E-04	3.14E-04	5.18E-06	3.14E-05	1.84E-05
933	577290.6	4194013	7.19E-04	2.42E-03	1.89E-03	1.12E-04	3.90E-04	2.98E-04	4.92E-06	2.98E-05	1.75E-05
934	577281.4	4194011	7.01E-04	2.36E-03	1.84E-03	1.09E-04	3.81E-04	2.91E-04	4.80E-06	2.91E-05	1.71E-05
935	577292.6	4194003	6.67E-04	2.24E-03	1.75E-03	1.04E-04	3.62E-04	2.76E-04	4.56E-06	2.76E-05	1.62E-05
936	577283.4	4194002	6.52E-04	2.19E-03	1.71E-03	1.02E-04	3.54E-04	2.70E-04	4.46E-06	2.70E-05	1.58E-05
937	577294.7	4193994	6.20E-04	2.09E-03	1.63E-03	9.66E-05	3.36E-04	2.57E-04	4.24E-06	2.57E-05	1.51E-05
938	577285.5	4193992	6.07E-04	2.04E-03	1.59E-03	9.45E-05	3.29E-04	2.51E-04	4.15E-06	2.51E-05	1.48E-05
939	577296.7	4193984	5.77E-04	1.94E-03	1.52E-03	9.00E-05	3.13E-04	2.39E-04	3.95E-06	2.39E-05	1.40E-05
940	577287.6	4193982	5.66E-04	1.90E-03	1.49E-03	8.81E-05	3.07E-04	2.35E-04	3.87E-06	2.34E-05	1.38E-05
941	577298.8	4193974	5.39E-04	1.81E-03	1.42E-03	8.40E-05	2.93E-04	2.24E-04	3.69E-06	2.23E-05	1.31E-05
942	577289.6	4193972	5.28E-04	1.78E-03	1.39E-03	8.23E-05	2.87E-04	2.19E-04	3.61E-06	2.19E-05	1.29E-05
943	577300.8	4193964	5.04E-04	1.70E-03	1.32E-03	7.86E-05	2.74E-04	2.09E-04	3.45E-06	2.09E-05	1.23E-05
944	577291.7	4193962	4.95E-04	1.67E-03	1.30E-03	7.71E-05	2.68E-04	2.05E-04	3.38E-06	2.05E-05	1.20E-05
945	577302.9	4193955	4.73E-04	1.59E-03	1.24E-03	7.36E-05	2.56E-04	1.96E-04	3.23E-06	1.96E-05	1.15E-05
946	577293.7	4193953	4.64E-04	1.56E-03	1.22E-03	7.23E-05	2.52E-04	1.92E-04	3.17E-06	1.92E-05	1.13E-05
947	577304.9	4193945	4.44E-04	1.49E-03	1.17E-03	6.91E-05	2.41E-04	1.84E-04	3.03E-06	1.84E-05	1.08E-05
948	577295.8	4193943	4.36E-04	1.47E-03	1.15E-03	6.79E-05	2.37E-04	1.81E-04	2.98E-06	1.81E-05	1.06E-05
949	577222.1	4194250	8.99E-03	3.02E-02	2.36E-02	1.40E-03	4.88E-03	3.73E-03	6.15E-05	3.72E-04	2.19E-04
950	577213.8	4194245	7.49E-03	2.52E-02	1.97E-02	1.17E-03	4.07E-03	3.11E-03	5.12E-05	3.10E-04	1.82E-04
951	577221	4194239	8.43E-03	2.84E-02	2.21E-02	1.31E-03	4.58E-03	3.50E-03	5.77E-05	3.49E-04	2.05E-04
952	577205.5	4194239	6.35E-03	2.14E-02	1.67E-02	9.89E-04	3.44E-03	2.63E-03	4.34E-05	2.63E-04	1.54E-04
953	577212.5	4194233	7.08E-03	2.38E-02	1.86E-02	1.10E-03	3.84E-03	2.93E-03	4.84E-05	2.93E-04	1.72E-04
954	577220.2	4194228	7.70E-03	2.59E-02	2.02E-02	1.20E-03	4.18E-03	3.19E-03	5.27E-05	3.19E-04	1.87E-04
955	577197.2	4194233	5.42E-03	1.82E-02	1.42E-02	8.45E-04	2.94E-03	2.25E-03	3.71E-05	2.25E-04	1.32E-04
956	577204.3	4194228	6.01E-03	2.02E-02	1.58E-02	9.37E-04	3.26E-03	2.49E-03	4.11E-05	2.49E-04	1.46E-04
957	577211.7	4194222	6.54E-03	2.20E-02	1.72E-02	1.02E-03	3.55E-03	2.71E-03	4.47E-05	2.71E-04	1.59E-04
958	577220.2	4194218	7.20E-03	2.42E-02	1.89E-02	1.12E-03	3.91E-03	2.98E-03	4.92E-05	2.98E-04	1.75E-04
959	577229.2	4194218	8.12E-03	2.73E-02	2.13E-02	1.26E-03	4.40E-03	3.37E-03	5.55E-05	3.36E-04	1.97E-04
960	577188.9	4194228	4.69E-03	1.58E-02	1.23E-02	7.30E-04	2.54E-03	1.94E-03	3.20E-05	1.94E-04	1.14E-04
961	577196	4194222	5.16E-03	1.74E-02	1.35E-02	8.03E-04	2.80E-03	2.14E-03	3.53E-05	2.14E-04	1.25E-04
962	577203.1	4194216	5.57E-03	1.88E-02	1.46E-02	8.68E-04	3.02E-03	2.31E-03	3.81E-05	2.31E-04	1.36E-04
963	577210.1	4194211	5.86E-03	1.97E-02	1.54E-02	9.13E-04	3.18E-03	2.43E-03	4.01E-05	2.43E-04	1.43E-04
964	577219.3	4194209	6.47E-03	2.18E-02	1.70E-02	1.01E-03	3.51E-03	2.68E-03	4.42E-05	2.68E-04	1.57E-04
965	577228.4	4194208	7.16E-03	2.41E-02	1.88E-02	1.12E-03	3.88E-03	2.97E-03	4.89E-05	2.96E-04	1.74E-04
966	577180.6	4194222	4.07E-03	1.37E-02	1.07E-02	6.34E-04	2.21E-03	1.69E-03	2.78E-05	1.69E-04	9.90E-05
967	577187.7	4194216	4.44E-03	1.50E-02	1.17E-02	6.92E-04	2.41E-03	1.84E-03	3.04E-05	1.84E-04	1.08E-04
968	577195.2	4194210	4.76E-03	1.60E-02	1.25E-02	7.42E-04	2.58E-03	1.97E-03	3.26E-05	1.97E-04	1.16E-04
969	577202.3	4194205	5.00E-03	1.68E-02	1.31E-02	7.78E-04	2.71E-03	2.07E-03	3.42E-05	2.07E-04	1.22E-04
970	577210.3	4194200	5.21E-03	1.75E-02	1.37E-02	8.12E-04	2.83E-03	2.16E-03	3.56E-05	2.16E-04	1.27E-04
971	577219.4	4194199	5.62E-03	1.89E-02	1.48E-02	8.75E-04	3.05E-03	2.33E-03	3.84E-05	2.33E-04	1.37E-04
972	577228.5	4194199	5.96E-03	2.01E-02	1.57E-02	9.29E-04	3.23E-03	2.47E-03	4.08E-05	2.47E-04	1.45E-04

973	577172.4	4194217	3.53E-03	1.19E-02	9.26E-03	5.50E-04	1.91E-03	1.46E-03	2.41E-05	1.46E-04	8.58E-05
974	577179.5	4194211	3.83E-03	1.29E-02	1.00E-02	5.96E-04	2.08E-03	1.59E-03	2.62E-05	1.59E-04	9.31E-05
975	577186.5	4194205	4.07E-03	1.37E-02	1.07E-02	6.35E-04	2.21E-03	1.69E-03	2.79E-05	1.69E-04	9.91E-05
976	577193.6	4194199	4.26E-03	1.43E-02	1.12E-02	6.63E-04	2.31E-03	1.76E-03	2.91E-05	1.76E-04	1.04E-04
977	577200.7	4194194	4.27E-03	1.44E-02	1.12E-02	6.66E-04	2.32E-03	1.77E-03	2.92E-05	1.77E-04	1.04E-04
978	577209.5	4194191	4.42E-03	1.49E-02	1.16E-02	6.89E-04	2.40E-03	1.83E-03	3.03E-05	1.83E-04	1.08E-04
979	577218.6	4194190	4.69E-03	1.58E-02	1.23E-02	7.30E-04	2.54E-03	1.94E-03	3.21E-05	1.94E-04	1.14E-04
980	577227.6	4194189	4.92E-03	1.65E-02	1.29E-02	7.66E-04	2.67E-03	2.04E-03	3.36E-05	2.04E-04	1.20E-04
981	577164.1	4194211	3.06E-03	1.03E-02	8.02E-03	4.76E-04	1.66E-03	1.27E-03	2.09E-05	1.27E-04	7.43E-05
982	577171.2	4194205	3.30E-03	1.11E-02	8.67E-03	5.15E-04	1.79E-03	1.37E-03	2.26E-05	1.37E-04	8.03E-05
983	577178.3	4194199	3.51E-03	1.18E-02	9.22E-03	5.47E-04	1.90E-03	1.46E-03	2.40E-05	1.45E-04	8.54E-05
984	577185.4	4194194	3.63E-03	1.22E-02	9.54E-03	5.66E-04	1.97E-03	1.51E-03	2.49E-05	1.51E-04	8.84E-05
985	577192.5	4194188	3.65E-03	1.23E-02	9.58E-03	5.68E-04	1.98E-03	1.51E-03	2.49E-05	1.51E-04	8.87E-05
986	577199.6	4194182	3.58E-03	1.21E-02	9.41E-03	5.58E-04	1.94E-03	1.49E-03	2.45E-05	1.48E-04	8.71E-05
987	577208.6	4194181	3.77E-03	1.27E-02	9.91E-03	5.88E-04	2.05E-03	1.56E-03	2.58E-05	1.56E-04	9.18E-05
988	577217.7	4194180	3.96E-03	1.33E-02	1.04E-02	6.17E-04	2.15E-03	1.64E-03	2.71E-05	1.64E-04	9.64E-05
989	577226.8	4194179	4.13E-03	1.39E-02	1.08E-02	6.43E-04	2.24E-03	1.71E-03	2.82E-05	1.71E-04	1.00E-04
990	577235.9	4194179	4.28E-03	1.44E-02	1.12E-02	6.67E-04	2.32E-03	1.78E-03	2.93E-05	1.77E-04	1.04E-04
991	577155.8	4194205	2.67E-03	8.99E-03	7.01E-03	4.16E-04	1.45E-03	1.11E-03	1.83E-05	1.11E-04	6.50E-05
992	577162.9	4194200	2.86E-03	9.64E-03	7.52E-03	4.46E-04	1.55E-03	1.19E-03	1.96E-05	1.19E-04	6.96E-05
993	577170	4194194	3.03E-03	1.02E-02	7.96E-03	4.72E-04	1.64E-03	1.26E-03	2.07E-05	1.25E-04	7.37E-05
994	577177.1	4194188	3.12E-03	1.05E-02	8.18E-03	4.86E-04	1.69E-03	1.29E-03	2.13E-05	1.29E-04	7.58E-05
995	577184.2	4194182	3.14E-03	1.06E-02	8.25E-03	4.89E-04	1.70E-03	1.30E-03	2.15E-05	1.30E-04	7.64E-05
996	577191.3	4194177	3.10E-03	1.04E-02	8.14E-03	4.83E-04	1.68E-03	1.29E-03	2.12E-05	1.28E-04	7.54E-05
997	577199.6	4194172	3.10E-03	1.04E-02	8.14E-03	4.83E-04	1.68E-03	1.29E-03	2.12E-05	1.28E-04	7.54E-05
998	577208.7	4194171	3.25E-03	1.09E-02	8.54E-03	5.07E-04	1.77E-03	1.35E-03	2.22E-05	1.35E-04	7.91E-05
999	577217.8	4194171	3.39E-03	1.14E-02	8.91E-03	5.29E-04	1.84E-03	1.41E-03	2.32E-05	1.41E-04	8.25E-05
1000	577226.9	4194170	3.52E-03	1.19E-02	9.25E-03	5.49E-04	1.91E-03	1.46E-03	2.41E-05	1.46E-04	8.57E-05
1001	577147.5	4194200	2.34E-03	7.88E-03	6.15E-03	3.65E-04	1.27E-03	9.71E-04	1.60E-05	9.70E-05	5.70E-05
1002	577154.6	4194194	2.50E-03	8.41E-03	6.57E-03	3.90E-04	1.36E-03	1.04E-03	1.71E-05	1.04E-04	6.08E-05
1003	577161.7	4194188	2.62E-03	8.83E-03	6.89E-03	4.09E-04	1.42E-03	1.09E-03	1.79E-05	1.09E-04	6.38E-05
1004	577168.8	4194182	2.70E-03	9.08E-03	7.08E-03	4.20E-04	1.46E-03	1.12E-03	1.84E-05	1.12E-04	6.56E-05
1005	577176	4194177	2.73E-03	9.18E-03	7.16E-03	4.25E-04	1.48E-03	1.13E-03	1.87E-05	1.13E-04	6.64E-05
1006	577183.1	4194171	2.71E-03	9.12E-03	7.12E-03	4.22E-04	1.47E-03	1.12E-03	1.85E-05	1.12E-04	6.59E-05
1007	577190.2	4194165	2.64E-03	8.90E-03	6.94E-03	4.12E-04	1.43E-03	1.10E-03	1.81E-05	1.10E-04	6.43E-05
1008	577139.2	4194194	2.06E-03	6.93E-03	5.41E-03	3.21E-04	1.12E-03	8.54E-04	1.41E-05	8.53E-05	5.01E-05
1009	577146.3	4194188	2.19E-03	7.38E-03	5.75E-03	3.41E-04	1.19E-03	9.09E-04	1.50E-05	9.08E-05	5.33E-05
1010	577153.5	4194183	2.29E-03	7.70E-03	6.01E-03	3.57E-04	1.24E-03	9.49E-04	1.57E-05	9.48E-05	5.57E-05
1011	577160.6	4194177	2.35E-03	7.92E-03	6.18E-03	3.67E-04	1.28E-03	9.75E-04	1.61E-05	9.75E-05	5.72E-05
1012	577167.7	4194171	2.39E-03	8.03E-03	6.27E-03	3.72E-04	1.30E-03	9.90E-04	1.63E-05	9.89E-05	5.81E-05
1013	577174.8	4194165	2.39E-03	8.03E-03	6.26E-03	3.72E-04	1.29E-03	9.89E-04	1.63E-05	9.88E-05	5.80E-05
1014	577130.9	4194189	1.82E-03	6.13E-03	4.78E-03	2.84E-04	9.88E-04	7.55E-04	1.25E-05	7.54E-05	4.43E-05
1015	577138	4194183	1.93E-03	6.49E-03	5.06E-03	3.00E-04	1.05E-03	7.99E-04	1.32E-05	7.98E-05	4.69E-05
1016	577145.1	4194177	2.01E-03	6.76E-03	5.27E-03	3.13E-04	1.09E-03	8.33E-04	1.37E-05	8.32E-05	4.89E-05
1017	577152.2	4194171	2.07E-03	6.96E-03	5.43E-03	3.22E-04	1.12E-03	8.58E-04	1.41E-05	8.57E-05	5.03E-05
1018	577159.2	4194166	2.10E-03	7.08E-03	5.52E-03	3.28E-04	1.14E-03	8.72E-04	1.44E-05	8.71E-05	5.11E-05
1019	577166.3	4194160	2.11E-03	7.10E-03	5.54E-03	3.29E-04	1.15E-03	8.75E-04	1.44E-05	8.74E-05	5.14E-05
1020	577216.5	4194142	2.26E-03	7.62E-03	5.94E-03	3.53E-04	1.23E-03	9.38E-04	1.55E-05	9.37E-05	5.50E-05
1021	577225.5	4194141	2.32E-03	7.82E-03	6.10E-03	3.62E-04	1.26E-03	9.64E-04	1.59E-05	9.63E-05	5.65E-05
1022	577234.6	4194140	2.38E-03	8.00E-03	6.24E-03	3.70E-04	1.29E-03	9.86E-04	1.63E-05	9.85E-05	5.78E-05
1023	577243.7	4194140	2.43E-03	8.17E-03	6.37E-03	3.78E-04	1.32E-03	1.01E-03	1.66E-05	1.01E-04	5.90E-05
1024	577122.6	4194183	1.62E-03	5.44E-03	4.24E-03	2.52E-04	8.77E-04	6.70E-04	1.11E-05	6.69E-05	3.93E-05
1025	577129.7	4194177	1.70E-03	5.73E-03	4.47E-03	2.65E-04	9.24E-04	7.06E-04	1.16E-05	7.06E-05	4.14E-05
1026	577136.8	4194171	1.78E-03	5.98E-03	4.67E-03	2.77E-04	9.64E-04	7.37E-04	1.22E-05	7.36E-05	4.32E-05
1027	577143.9	4194166	1.83E-03	6.16E-03	4.81E-03	2.85E-04	9.93E-04	7.59E-04	1.25E-05	7.58E-05	4.45E-05
1028	577151	4194160	1.86E-03	6.27E-03	4.89E-03	2.90E-04	1.01E-03	7.73E-04	1.27E-05	7.72E-05	4.53E-05
1029	577179.3	4194137	1.80E-03	6.06E-03	4.73E-03	2.80E-04	9.77E-04	7.46E-04	1.23E-05	7.46E-05	4.38E-05
1030	577188.4	4194135	1.84E-03	6.18E-03	4.82E-03	2.86E-04	9.96E-04	7.61E-04	1.26E-05	7.61E-05	4.47E-05
1031	577197.4	4194134	1.89E-03	6.38E-03	4.97E-03	2.95E-04	1.03E-03	7.85E-04	1.30E-05	7.85E-05	4.61E-05
1032	577206.5	4194133	1.95E-03	6.56E-03	5.12E-03	3.04E-04	1.06E-03	8.08E-04	1.33E-05	8.08E-05	4.74E-05
1033	577215.6	4194132	2.00E-03	6.73E-03	5.25E-03	3.12E-04	1.09E-03	8.30E-04	1.37E-05	8.29E-05	4.87E-05

1034	577224.7	4194132	2.05E-03	6.90E-03	5.38E-03	3.19E-04	1.11E-03	8.50E-04	1.40E-05	8.49E-05	4.99E-05
1035	577233.8	4194131	2.09E-03	7.04E-03	5.49E-03	3.26E-04	1.14E-03	8.67E-04	1.43E-05	8.67E-05	5.09E-05
1036	577242.9	4194130	2.13E-03	7.17E-03	5.60E-03	3.32E-04	1.16E-03	8.84E-04	1.46E-05	8.83E-05	5.19E-05
1037	577114.3	4194177	1.44E-03	4.84E-03	3.78E-03	2.24E-04	7.81E-04	5.97E-04	9.84E-06	5.96E-05	3.50E-05
1038	577121.4	4194172	1.52E-03	5.10E-03	3.98E-03	2.36E-04	8.22E-04	6.28E-04	1.04E-05	6.28E-05	3.69E-05
1039	577128.5	4194166	1.58E-03	5.32E-03	4.15E-03	2.46E-04	8.58E-04	6.55E-04	1.08E-05	6.55E-05	3.84E-05
1040	577135.6	4194160	1.63E-03	5.48E-03	4.28E-03	2.54E-04	8.84E-04	6.76E-04	1.11E-05	6.75E-05	3.96E-05
1041	577142.7	4194154	1.66E-03	5.59E-03	4.36E-03	2.59E-04	9.02E-04	6.89E-04	1.14E-05	6.88E-05	4.04E-05
1042	577171.1	4194131	1.63E-03	5.48E-03	4.27E-03	2.54E-04	8.83E-04	6.75E-04	1.11E-05	6.74E-05	3.96E-05
1043	577178.9	4194126	1.60E-03	5.39E-03	4.20E-03	2.49E-04	8.68E-04	6.64E-04	1.09E-05	6.63E-05	3.89E-05
1044	577188	4194125	1.65E-03	5.55E-03	4.33E-03	2.57E-04	8.96E-04	6.84E-04	1.13E-05	6.84E-05	4.01E-05
1045	577197	4194124	1.70E-03	5.71E-03	4.46E-03	2.64E-04	9.21E-04	7.03E-04	1.16E-05	7.03E-05	4.13E-05
1046	577206.1	4194124	1.74E-03	5.86E-03	4.57E-03	2.71E-04	9.44E-04	7.21E-04	1.19E-05	7.21E-05	4.23E-05
1047	577215.2	4194123	1.78E-03	5.99E-03	4.68E-03	2.77E-04	9.66E-04	7.38E-04	1.22E-05	7.38E-05	4.33E-05
1048	577224.3	4194122	1.82E-03	6.12E-03	4.78E-03	2.83E-04	9.87E-04	7.54E-04	1.24E-05	7.54E-05	4.43E-05
1049	577233.4	4194121	1.85E-03	6.24E-03	4.87E-03	2.89E-04	1.01E-03	7.69E-04	1.27E-05	7.68E-05	4.51E-05
1050	577242.5	4194120	1.89E-03	6.35E-03	4.95E-03	2.94E-04	1.02E-03	7.82E-04	1.29E-05	7.81E-05	4.59E-05
1051	577106.1	4194172	1.29E-03	4.34E-03	3.39E-03	2.01E-04	7.00E-04	5.35E-04	8.82E-06	5.34E-05	3.14E-05
1052	577113.1	4194166	1.36E-03	4.56E-03	3.56E-03	2.11E-04	7.36E-04	5.62E-04	9.27E-06	5.62E-05	3.30E-05
1053	577120.2	4194160	1.41E-03	4.75E-03	3.71E-03	2.20E-04	7.67E-04	5.86E-04	9.66E-06	5.85E-05	3.44E-05
1054	577127.3	4194155	1.46E-03	4.90E-03	3.83E-03	2.27E-04	7.91E-04	6.04E-04	9.97E-06	6.04E-05	3.55E-05
1055	577155.7	4194131	1.50E-03	5.04E-03	3.93E-03	2.33E-04	8.13E-04	6.21E-04	1.02E-05	6.20E-05	3.64E-05
1056	577162.8	4194126	1.48E-03	4.97E-03	3.87E-03	2.30E-04	8.01E-04	6.12E-04	1.01E-05	6.11E-05	3.59E-05
1057	577169.9	4194120	1.44E-03	4.86E-03	3.79E-03	2.25E-04	7.84E-04	5.99E-04	9.88E-06	5.98E-05	3.51E-05
1058	577178.5	4194117	1.45E-03	4.87E-03	3.80E-03	2.26E-04	7.86E-04	6.00E-04	9.90E-06	6.00E-05	3.52E-05
1059	577187.6	4194116	1.49E-03	5.01E-03	3.91E-03	2.32E-04	8.08E-04	6.17E-04	1.02E-05	6.17E-05	3.62E-05
1060	577196.7	4194115	1.53E-03	5.14E-03	4.01E-03	2.38E-04	8.28E-04	6.33E-04	1.04E-05	6.32E-05	3.71E-05
1061	577205.8	4194114	1.56E-03	5.25E-03	4.10E-03	2.43E-04	8.47E-04	6.47E-04	1.07E-05	6.46E-05	3.80E-05
1062	577214.9	4194113	1.59E-03	5.36E-03	4.18E-03	2.48E-04	8.65E-04	6.61E-04	1.09E-05	6.60E-05	3.88E-05
1063	577224	4194112	1.62E-03	5.47E-03	4.26E-03	2.53E-04	8.81E-04	6.73E-04	1.11E-05	6.73E-05	3.95E-05
1064	577233.1	4194112	1.65E-03	5.56E-03	4.34E-03	2.58E-04	8.97E-04	6.85E-04	1.13E-05	6.85E-05	4.02E-05
1065	577242.2	4194111	1.68E-03	5.65E-03	4.41E-03	2.62E-04	9.12E-04	6.97E-04	1.15E-05	6.96E-05	4.09E-05
1066	577251.3	4194110	1.70E-03	5.74E-03	4.48E-03	2.66E-04	9.25E-04	7.07E-04	1.17E-05	7.06E-05	4.15E-05
1067	577097.8	4194166	1.16E-03	3.91E-03	3.05E-03	1.81E-04	6.30E-04	4.81E-04	7.94E-06	4.81E-05	2.82E-05
1068	577104.9	4194160	1.22E-03	4.10E-03	3.20E-03	1.90E-04	6.61E-04	5.05E-04	8.33E-06	5.05E-05	2.96E-05
1069	577112	4194155	1.27E-03	4.27E-03	3.33E-03	1.98E-04	6.89E-04	5.26E-04	8.68E-06	5.26E-05	3.09E-05
1070	577119.1	4194149	1.31E-03	4.41E-03	3.44E-03	2.04E-04	7.11E-04	5.43E-04	8.96E-06	5.43E-05	3.19E-05
1071	577147.5	4194126	1.36E-03	4.57E-03	3.56E-03	2.11E-04	7.37E-04	5.63E-04	9.28E-06	5.62E-05	3.30E-05
1072	577154.6	4194120	1.34E-03	4.52E-03	3.52E-03	2.09E-04	7.28E-04	5.56E-04	9.18E-06	5.56E-05	3.26E-05
1073	577161.7	4194114	1.32E-03	4.44E-03	3.46E-03	2.05E-04	7.15E-04	5.46E-04	9.01E-06	5.46E-05	3.21E-05
1074	577168.8	4194109	1.29E-03	4.33E-03	3.38E-03	2.01E-04	6.99E-04	5.34E-04	8.81E-06	5.33E-05	3.13E-05
1075	577178.1	4194107	1.31E-03	4.42E-03	3.45E-03	2.05E-04	7.13E-04	5.45E-04	8.99E-06	5.44E-05	3.20E-05
1076	577187.2	4194106	1.35E-03	4.54E-03	3.54E-03	2.10E-04	7.31E-04	5.59E-04	9.22E-06	5.58E-05	3.28E-05
1077	577196.3	4194105	1.38E-03	4.64E-03	3.62E-03	2.15E-04	7.48E-04	5.71E-04	9.43E-06	5.71E-05	3.35E-05
1078	577205.4	4194105	1.41E-03	4.73E-03	3.69E-03	2.19E-04	7.63E-04	5.83E-04	9.62E-06	5.83E-05	3.42E-05
1079	577214.5	4194104	1.43E-03	4.82E-03	3.76E-03	2.23E-04	7.78E-04	5.94E-04	9.80E-06	5.94E-05	3.49E-05
1080	577223.6	4194103	1.46E-03	4.91E-03	3.83E-03	2.27E-04	7.91E-04	6.05E-04	9.97E-06	6.04E-05	3.55E-05
1081	577232.7	4194102	1.48E-03	4.99E-03	3.89E-03	2.31E-04	8.05E-04	6.15E-04	1.01E-05	6.14E-05	3.61E-05
1082	577241.8	4194101	1.51E-03	5.07E-03	3.96E-03	2.35E-04	8.17E-04	6.25E-04	1.03E-05	6.24E-05	3.66E-05
1083	577250.9	4194100	1.53E-03	5.14E-03	4.01E-03	2.38E-04	8.29E-04	6.33E-04	1.04E-05	6.33E-05	3.72E-05
1084	577089.5	4194161	1.05E-03	3.53E-03	2.76E-03	1.64E-04	5.70E-04	4.35E-04	7.18E-06	4.35E-05	2.55E-05
1085	577096.6	4194155	1.10E-03	3.71E-03	2.89E-03	1.72E-04	5.97E-04	4.56E-04	7.53E-06	4.56E-05	2.68E-05
1086	577103.7	4194149	1.15E-03	3.86E-03	3.01E-03	1.78E-04	6.22E-04	4.75E-04	7.83E-06	4.75E-05	2.79E-05
1087	577132.1	4194126	1.24E-03	4.16E-03	3.25E-03	1.93E-04	6.71E-04	5.13E-04	8.46E-06	5.12E-05	3.01E-05
1088	577139.2	4194120	1.23E-03	4.15E-03	3.24E-03	1.92E-04	6.70E-04	5.12E-04	8.44E-06	5.11E-05	3.00E-05
1089	577146.3	4194114	1.22E-03	4.12E-03	3.21E-03	1.91E-04	6.64E-04	5.07E-04	8.37E-06	5.07E-05	2.98E-05
1090	577153.4	4194109	1.21E-03	4.06E-03	3.17E-03	1.88E-04	6.54E-04	5.00E-04	8.24E-06	4.99E-05	2.93E-05
1091	577160.5	4194103	1.18E-03	3.98E-03	3.10E-03	1.84E-04	6.41E-04	4.90E-04	8.08E-06	4.89E-05	2.87E-05
1092	577168.6	4194098	1.17E-03	3.93E-03	3.07E-03	1.82E-04	6.34E-04	4.84E-04	7.98E-06	4.84E-05	2.84E-05
1093	577177.7	4194097	1.20E-03	4.03E-03	3.14E-03	1.86E-04	6.49E-04	4.96E-04	8.18E-06	4.96E-05	2.91E-05
1094	577186.8	4194097	1.22E-03	4.12E-03	3.21E-03	1.91E-04	6.64E-04	5.07E-04	8.37E-06	5.07E-05	2.98E-05

1095	577195.9	4194096	1.25E-03	4.20E-03	3.28E-03	1.95E-04	6.78E-04	5.18E-04	8.54E-06	5.17E-05	3.04E-05
1096	577205	4194095	1.27E-03	4.28E-03	3.34E-03	1.98E-04	6.90E-04	5.27E-04	8.70E-06	5.27E-05	3.09E-05
1097	577214.1	4194094	1.30E-03	4.36E-03	3.40E-03	2.02E-04	7.03E-04	5.37E-04	8.86E-06	5.36E-05	3.15E-05
1098	577223.2	4194093	1.32E-03	4.43E-03	3.46E-03	2.05E-04	7.15E-04	5.46E-04	9.01E-06	5.46E-05	3.20E-05
1099	577232.3	4194093	1.34E-03	4.50E-03	3.51E-03	2.09E-04	7.26E-04	5.55E-04	9.15E-06	5.54E-05	3.26E-05
1100	577241.5	4194092	1.36E-03	4.57E-03	3.57E-03	2.12E-04	7.37E-04	5.63E-04	9.29E-06	5.63E-05	3.30E-05
1101	577250.6	4194091	1.38E-03	4.63E-03	3.61E-03	2.14E-04	7.47E-04	5.71E-04	9.41E-06	5.70E-05	3.35E-05
1102	577081.2	4194155	9.54E-04	3.21E-03	2.50E-03	1.49E-04	5.17E-04	3.95E-04	6.52E-06	3.95E-05	2.32E-05
1103	577088.3	4194149	9.99E-04	3.36E-03	2.62E-03	1.56E-04	5.42E-04	4.14E-04	6.83E-06	4.14E-05	2.43E-05
1104	577095.4	4194143	1.04E-03	3.50E-03	2.73E-03	1.62E-04	5.64E-04	4.31E-04	7.10E-06	4.30E-05	2.53E-05
1105	577123.9	4194120	1.13E-03	3.79E-03	2.96E-03	1.75E-04	6.11E-04	4.67E-04	7.70E-06	4.66E-05	2.74E-05
1106	577131	4194115	1.13E-03	3.79E-03	2.96E-03	1.75E-04	6.11E-04	4.67E-04	7.70E-06	4.67E-05	2.74E-05
1107	577138.1	4194109	1.12E-03	3.77E-03	2.94E-03	1.74E-04	6.07E-04	4.64E-04	7.65E-06	4.63E-05	2.72E-05
1108	577145.2	4194103	1.11E-03	3.72E-03	2.90E-03	1.72E-04	6.00E-04	4.58E-04	7.56E-06	4.58E-05	2.69E-05
1109	577152.3	4194097	1.09E-03	3.66E-03	2.85E-03	1.69E-04	5.90E-04	4.51E-04	7.43E-06	4.50E-05	2.64E-05
1110	577159.4	4194092	1.06E-03	3.58E-03	2.79E-03	1.66E-04	5.77E-04	4.41E-04	7.28E-06	4.41E-05	2.59E-05
1111	577168.2	4194089	1.07E-03	3.60E-03	2.81E-03	1.67E-04	5.80E-04	4.43E-04	7.31E-06	4.43E-05	2.60E-05
1112	577177.3	4194088	1.09E-03	3.68E-03	2.87E-03	1.70E-04	5.93E-04	4.53E-04	7.47E-06	4.53E-05	2.66E-05
1113	577186.4	4194087	1.11E-03	3.75E-03	2.93E-03	1.74E-04	6.05E-04	4.62E-04	7.62E-06	4.62E-05	2.71E-05
1114	577195.5	4194086	1.14E-03	3.82E-03	2.98E-03	1.77E-04	6.16E-04	4.71E-04	7.76E-06	4.70E-05	2.76E-05
1115	577204.6	4194085	1.16E-03	3.89E-03	3.03E-03	1.80E-04	6.27E-04	4.79E-04	7.90E-06	4.79E-05	2.81E-05
1116	577213.7	4194085	1.18E-03	3.96E-03	3.09E-03	1.83E-04	6.38E-04	4.87E-04	8.04E-06	4.87E-05	2.86E-05
1117	577222.9	4194084	1.19E-03	4.02E-03	3.14E-03	1.86E-04	6.48E-04	4.95E-04	8.17E-06	4.95E-05	2.91E-05
1118	577232	4194083	1.21E-03	4.08E-03	3.19E-03	1.89E-04	6.58E-04	5.03E-04	8.30E-06	5.03E-05	2.95E-05
1119	577241.1	4194082	1.23E-03	4.14E-03	3.23E-03	1.92E-04	6.68E-04	5.10E-04	8.42E-06	5.10E-05	2.99E-05
1120	577250.2	4194081	1.25E-03	4.19E-03	3.27E-03	1.94E-04	6.76E-04	5.17E-04	8.52E-06	5.16E-05	3.03E-05
1121	577072.9	4194149	8.70E-04	2.93E-03	2.28E-03	1.36E-04	4.72E-04	3.61E-04	5.95E-06	3.60E-05	2.12E-05
1122	577080	4194144	9.09E-04	3.06E-03	2.39E-03	1.42E-04	4.93E-04	3.77E-04	6.22E-06	3.77E-05	2.21E-05
1123	577108.5	4194121	1.02E-03	3.42E-03	2.67E-03	1.59E-04	5.52E-04	4.22E-04	6.96E-06	4.22E-05	2.48E-05
1124	577115.6	4194115	1.03E-03	3.46E-03	2.70E-03	1.60E-04	5.58E-04	4.26E-04	7.03E-06	4.26E-05	2.50E-05
1125	577122.7	4194109	1.03E-03	3.47E-03	2.71E-03	1.61E-04	5.59E-04	4.27E-04	7.05E-06	4.27E-05	2.51E-05
1126	577129.8	4194103	1.03E-03	3.46E-03	2.70E-03	1.60E-04	5.57E-04	4.26E-04	7.02E-06	4.25E-05	2.50E-05
1127	577136.9	4194097	1.02E-03	3.42E-03	2.67E-03	1.58E-04	5.52E-04	4.22E-04	6.95E-06	4.21E-05	2.47E-05
1128	577144	4194092	1.00E-03	3.37E-03	2.63E-03	1.56E-04	5.44E-04	4.16E-04	6.85E-06	4.15E-05	2.44E-05
1129	577151.2	4194086	9.83E-04	3.31E-03	2.58E-03	1.53E-04	5.34E-04	4.08E-04	6.73E-06	4.07E-05	2.39E-05
1130	577158.3	4194080	9.61E-04	3.23E-03	2.52E-03	1.50E-04	5.22E-04	3.98E-04	6.57E-06	3.98E-05	2.34E-05
1131	577167.3	4194079	9.80E-04	3.30E-03	2.57E-03	1.53E-04	5.32E-04	4.06E-04	6.70E-06	4.06E-05	2.38E-05
1132	577176.4	4194078	1.00E-03	3.36E-03	2.63E-03	1.56E-04	5.43E-04	4.14E-04	6.84E-06	4.14E-05	2.43E-05
1133	577185.5	4194077	1.02E-03	3.43E-03	2.67E-03	1.59E-04	5.52E-04	4.22E-04	6.96E-06	4.22E-05	2.48E-05
1134	577194.7	4194077	1.03E-03	3.48E-03	2.72E-03	1.61E-04	5.62E-04	4.29E-04	7.08E-06	4.29E-05	2.52E-05
1135	577203.8	4194076	1.05E-03	3.54E-03	2.76E-03	1.64E-04	5.71E-04	4.36E-04	7.20E-06	4.36E-05	2.56E-05
1136	577212.9	4194075	1.07E-03	3.60E-03	2.81E-03	1.67E-04	5.80E-04	4.43E-04	7.31E-06	4.43E-05	2.60E-05
1137	577222	4194074	1.09E-03	3.66E-03	2.85E-03	1.69E-04	5.90E-04	4.51E-04	7.43E-06	4.50E-05	2.64E-05
1138	577231.1	4194073	1.10E-03	3.71E-03	2.90E-03	1.72E-04	5.98E-04	4.57E-04	7.54E-06	4.57E-05	2.68E-05
1139	577240.3	4194073	1.12E-03	3.76E-03	2.94E-03	1.74E-04	6.07E-04	4.64E-04	7.65E-06	4.63E-05	2.72E-05
1140	577249.4	4194072	1.13E-03	3.81E-03	2.97E-03	1.76E-04	6.14E-04	4.69E-04	7.74E-06	4.69E-05	2.75E-05
1141	577258.5	4194071	1.15E-03	3.85E-03	3.01E-03	1.78E-04	6.21E-04	4.75E-04	7.83E-06	4.74E-05	2.79E-05
1142	577064.6	4194144	7.96E-04	2.68E-03	2.09E-03	1.24E-04	4.32E-04	3.30E-04	5.44E-06	3.30E-05	1.94E-05
1143	577093.1	4194121	9.14E-04	3.08E-03	2.40E-03	1.42E-04	4.96E-04	3.79E-04	6.25E-06	3.79E-05	2.22E-05
1144	577100.2	4194115	9.31E-04	3.13E-03	2.44E-03	1.45E-04	5.05E-04	3.86E-04	6.36E-06	3.85E-05	2.26E-05
1145	577107.3	4194109	9.41E-04	3.17E-03	2.47E-03	1.47E-04	5.11E-04	3.90E-04	6.44E-06	3.90E-05	2.29E-05
1146	577114.4	4194103	9.46E-04	3.18E-03	2.48E-03	1.47E-04	5.13E-04	3.92E-04	6.47E-06	3.92E-05	2.30E-05
1147	577121.6	4194098	9.45E-04	3.18E-03	2.48E-03	1.47E-04	5.13E-04	3.92E-04	6.46E-06	3.91E-05	2.30E-05
1148	577128.7	4194092	9.38E-04	3.16E-03	2.46E-03	1.46E-04	5.09E-04	3.89E-04	6.41E-06	3.88E-05	2.28E-05
1149	577135.8	4194086	9.26E-04	3.12E-03	2.43E-03	1.44E-04	5.03E-04	3.84E-04	6.33E-06	3.84E-05	2.25E-05
1150	577142.9	4194080	9.11E-04	3.07E-03	2.39E-03	1.42E-04	4.94E-04	3.78E-04	6.23E-06	3.77E-05	2.22E-05
1151	577150	4194075	8.92E-04	3.00E-03	2.34E-03	1.39E-04	4.84E-04	3.70E-04	6.10E-06	3.70E-05	2.17E-05
1152	577158.3	4194070	8.85E-04	2.98E-03	2.32E-03	1.38E-04	4.80E-04	3.67E-04	6.05E-06	3.67E-05	2.15E-05
1153	577167.4	4194070	9.03E-04	3.04E-03	2.37E-03	1.41E-04	4.90E-04	3.74E-04	6.17E-06	3.74E-05	2.20E-05
1154	577176.5	4194069	9.19E-04	3.09E-03	2.41E-03	1.43E-04	4.99E-04	3.81E-04	6.29E-06	3.81E-05	2.24E-05
1155	577185.6	4194068	9.34E-04	3.14E-03	2.45E-03	1.46E-04	5.07E-04	3.87E-04	6.39E-06	3.87E-05	2.27E-05

1156	577194.8	4194067	9.49E-04	3.19E-03	2.49E-03	1.48E-04	5.15E-04	3.93E-04	6.49E-06	3.93E-05	2.31E-05
1157	577203.9	4194066	9.64E-04	3.24E-03	2.53E-03	1.50E-04	5.23E-04	4.00E-04	6.59E-06	3.99E-05	2.34E-05
1158	577213	4194065	9.78E-04	3.29E-03	2.57E-03	1.52E-04	5.31E-04	4.06E-04	6.69E-06	4.05E-05	2.38E-05
1159	577222.1	4194065	9.93E-04	3.34E-03	2.61E-03	1.55E-04	5.39E-04	4.12E-04	6.79E-06	4.11E-05	2.42E-05
1160	577231.3	4194064	1.01E-03	3.39E-03	2.64E-03	1.57E-04	5.47E-04	4.18E-04	6.89E-06	4.17E-05	2.45E-05
1161	577240.4	4194063	1.02E-03	3.44E-03	2.68E-03	1.59E-04	5.54E-04	4.23E-04	6.98E-06	4.23E-05	2.48E-05
1162	577249.5	4194062	1.03E-03	3.48E-03	2.71E-03	1.61E-04	5.61E-04	4.28E-04	7.07E-06	4.28E-05	2.51E-05
1163	577258.6	4194061	1.04E-03	3.52E-03	2.74E-03	1.63E-04	5.67E-04	4.33E-04	7.15E-06	4.33E-05	2.54E-05
1164	577056.3	4194138	7.31E-04	2.46E-03	1.92E-03	1.14E-04	3.97E-04	3.03E-04	5.00E-06	3.03E-05	1.78E-05
1165	577084.8	4194115	8.38E-04	2.82E-03	2.20E-03	1.31E-04	4.55E-04	3.47E-04	5.73E-06	3.47E-05	2.04E-05
1166	577091.9	4194109	8.54E-04	2.87E-03	2.24E-03	1.33E-04	4.63E-04	3.54E-04	5.84E-06	3.54E-05	2.08E-05
1167	577099	4194104	8.65E-04	2.91E-03	2.27E-03	1.35E-04	4.69E-04	3.58E-04	5.91E-06	3.58E-05	2.10E-05
1168	577106.2	4194098	8.70E-04	2.93E-03	2.29E-03	1.36E-04	4.72E-04	3.61E-04	5.95E-06	3.61E-05	2.12E-05
1169	577113.3	4194092	8.71E-04	2.93E-03	2.29E-03	1.36E-04	4.73E-04	3.61E-04	5.96E-06	3.61E-05	2.12E-05
1170	577120.4	4194086	8.67E-04	2.92E-03	2.28E-03	1.35E-04	4.70E-04	3.59E-04	5.93E-06	3.59E-05	2.11E-05
1171	577127.5	4194080	8.58E-04	2.89E-03	2.25E-03	1.34E-04	4.65E-04	3.56E-04	5.87E-06	3.55E-05	2.09E-05
1172	577134.6	4194075	8.45E-04	2.85E-03	2.22E-03	1.32E-04	4.59E-04	3.51E-04	5.78E-06	3.50E-05	2.06E-05
1173	577141.8	4194069	8.30E-04	2.79E-03	2.18E-03	1.29E-04	4.50E-04	3.44E-04	5.68E-06	3.44E-05	2.02E-05
1174	577148.9	4194063	8.12E-04	2.73E-03	2.13E-03	1.27E-04	4.41E-04	3.37E-04	5.55E-06	3.36E-05	1.98E-05
1175	577157.9	4194061	8.18E-04	2.75E-03	2.15E-03	1.27E-04	4.44E-04	3.39E-04	5.59E-06	3.39E-05	1.99E-05
1176	577167	4194060	8.32E-04	2.80E-03	2.19E-03	1.30E-04	4.52E-04	3.45E-04	5.69E-06	3.45E-05	2.03E-05
1177	577176.1	4194059	8.46E-04	2.85E-03	2.22E-03	1.32E-04	4.59E-04	3.51E-04	5.79E-06	3.51E-05	2.06E-05
1178	577185.2	4194058	8.59E-04	2.89E-03	2.26E-03	1.34E-04	4.66E-04	3.56E-04	5.88E-06	3.56E-05	2.09E-05
1179	577194.4	4194057	8.72E-04	2.94E-03	2.29E-03	1.36E-04	4.73E-04	3.62E-04	5.96E-06	3.61E-05	2.12E-05
1180	577203.5	4194057	8.85E-04	2.98E-03	2.32E-03	1.38E-04	4.80E-04	3.67E-04	6.05E-06	3.66E-05	2.15E-05
1181	577212.6	4194056	8.97E-04	3.02E-03	2.36E-03	1.40E-04	4.87E-04	3.72E-04	6.14E-06	3.72E-05	2.18E-05
1182	577221.8	4194055	9.10E-04	3.06E-03	2.39E-03	1.42E-04	4.94E-04	3.77E-04	6.22E-06	3.77E-05	2.21E-05
1183	577230.9	4194054	9.22E-04	3.10E-03	2.42E-03	1.44E-04	5.01E-04	3.82E-04	6.31E-06	3.82E-05	2.24E-05
1184	577240	4194053	9.35E-04	3.15E-03	2.45E-03	1.46E-04	5.07E-04	3.87E-04	6.39E-06	3.87E-05	2.27E-05
1185	577249.1	4194053	9.46E-04	3.18E-03	2.48E-03	1.47E-04	5.13E-04	3.92E-04	6.47E-06	3.92E-05	2.30E-05
1186	577258.3	4194052	9.56E-04	3.22E-03	2.51E-03	1.49E-04	5.19E-04	3.96E-04	6.54E-06	3.96E-05	2.33E-05
1187	577069.4	4194115	7.51E-04	2.53E-03	1.97E-03	1.17E-04	4.08E-04	3.11E-04	5.14E-06	3.11E-05	1.83E-05
1188	577076.5	4194110	7.70E-04	2.59E-03	2.02E-03	1.20E-04	4.18E-04	3.19E-04	5.27E-06	3.19E-05	1.87E-05
1189	577083.6	4194104	7.85E-04	2.64E-03	2.06E-03	1.22E-04	4.26E-04	3.26E-04	5.37E-06	3.25E-05	1.91E-05
1190	577090.8	4194098	7.96E-04	2.68E-03	2.09E-03	1.24E-04	4.32E-04	3.30E-04	5.45E-06	3.30E-05	1.94E-05
1191	577097.9	4194092	8.03E-04	2.70E-03	2.11E-03	1.25E-04	4.36E-04	3.33E-04	5.49E-06	3.32E-05	1.95E-05
1192	577105	4194086	8.04E-04	2.71E-03	2.11E-03	1.25E-04	4.37E-04	3.34E-04	5.50E-06	3.33E-05	1.96E-05
1193	577112.1	4194081	8.02E-04	2.70E-03	2.11E-03	1.25E-04	4.35E-04	3.33E-04	5.49E-06	3.32E-05	1.95E-05
1194	577119.3	4194075	7.96E-04	2.68E-03	2.09E-03	1.24E-04	4.32E-04	3.30E-04	5.44E-06	3.30E-05	1.94E-05
1195	577126.4	4194069	7.86E-04	2.65E-03	2.06E-03	1.22E-04	4.27E-04	3.26E-04	5.38E-06	3.26E-05	1.91E-05
1196	577133.5	4194063	7.73E-04	2.60E-03	2.03E-03	1.20E-04	4.20E-04	3.21E-04	5.29E-06	3.20E-05	1.88E-05
1197	577140.6	4194058	7.58E-04	2.55E-03	1.99E-03	1.18E-04	4.11E-04	3.14E-04	5.19E-06	3.14E-05	1.84E-05
1198	577147.9	4194052	7.43E-04	2.50E-03	1.95E-03	1.16E-04	4.03E-04	3.08E-04	5.08E-06	3.08E-05	1.81E-05
1199	577157	4194051	7.56E-04	2.55E-03	1.99E-03	1.18E-04	4.10E-04	3.14E-04	5.17E-06	3.13E-05	1.84E-05
1200	577166.1	4194050	7.69E-04	2.59E-03	2.02E-03	1.20E-04	4.17E-04	3.19E-04	5.26E-06	3.18E-05	1.87E-05
1201	577175.3	4194050	7.81E-04	2.63E-03	2.05E-03	1.22E-04	4.24E-04	3.24E-04	5.34E-06	3.23E-05	1.90E-05
1202	577184.4	4194049	7.92E-04	2.67E-03	2.08E-03	1.23E-04	4.30E-04	3.28E-04	5.42E-06	3.28E-05	1.93E-05
1203	577193.5	4194048	8.03E-04	2.70E-03	2.11E-03	1.25E-04	4.36E-04	3.33E-04	5.49E-06	3.33E-05	1.95E-05
1204	577202.7	4194047	8.14E-04	2.74E-03	2.14E-03	1.27E-04	4.42E-04	3.37E-04	5.57E-06	3.37E-05	1.98E-05
1205	577211.8	4194046	8.25E-04	2.78E-03	2.17E-03	1.29E-04	4.48E-04	3.42E-04	5.64E-06	3.42E-05	2.01E-05
1206	577220.9	4194046	8.36E-04	2.81E-03	2.19E-03	1.30E-04	4.53E-04	3.46E-04	5.71E-06	3.46E-05	2.03E-05
1207	577230	4194045	8.47E-04	2.85E-03	2.22E-03	1.32E-04	4.60E-04	3.51E-04	5.79E-06	3.51E-05	2.06E-05
1208	577239.2	4194044	8.58E-04	2.89E-03	2.25E-03	1.34E-04	4.66E-04	3.56E-04	5.87E-06	3.55E-05	2.09E-05
1209	577248.3	4194043	8.68E-04	2.92E-03	2.28E-03	1.35E-04	4.71E-04	3.60E-04	5.94E-06	3.60E-05	2.11E-05
1210	577257.4	4194042	8.77E-04	2.95E-03	2.30E-03	1.37E-04	4.76E-04	3.64E-04	6.00E-06	3.63E-05	2.13E-05
1211	577061	4194110	6.93E-04	2.33E-03	1.82E-03	1.08E-04	3.76E-04	2.87E-04	4.74E-06	2.87E-05	1.69E-05
1212	577068.1	4194104	7.10E-04	2.39E-03	1.87E-03	1.11E-04	3.85E-04	2.94E-04	4.86E-06	2.94E-05	1.73E-05
1213	577075.2	4194098	7.24E-04	2.44E-03	1.90E-03	1.13E-04	3.93E-04	3.00E-04	4.95E-06	3.00E-05	1.76E-05
1214	577082.3	4194092	7.35E-04	2.47E-03	1.93E-03	1.15E-04	3.99E-04	3.05E-04	5.03E-06	3.05E-05	1.79E-05
1215	577089.4	4194087	7.42E-04	2.50E-03	1.95E-03	1.16E-04	4.03E-04	3.08E-04	5.07E-06	3.07E-05	1.80E-05
1216	577096.5	4194081	7.45E-04	2.51E-03	1.96E-03	1.16E-04	4.04E-04	3.09E-04	5.09E-06	3.09E-05	1.81E-05

1217	577103.6	4194075	7.44E-04	2.50E-03	1.95E-03	1.16E-04	4.04E-04	3.08E-04	5.09E-06	3.08E-05	1.81E-05
1218	577110.7	4194069	7.40E-04	2.49E-03	1.94E-03	1.15E-04	4.01E-04	3.07E-04	5.06E-06	3.06E-05	1.80E-05
1219	577117.8	4194064	7.32E-04	2.46E-03	1.92E-03	1.14E-04	3.97E-04	3.04E-04	5.01E-06	3.03E-05	1.78E-05
1220	577124.9	4194058	7.22E-04	2.43E-03	1.90E-03	1.13E-04	3.92E-04	2.99E-04	4.94E-06	2.99E-05	1.76E-05
1221	577132	4194052	7.10E-04	2.39E-03	1.86E-03	1.11E-04	3.85E-04	2.94E-04	4.85E-06	2.94E-05	1.73E-05
1222	577139.1	4194046	6.95E-04	2.34E-03	1.83E-03	1.08E-04	3.77E-04	2.88E-04	4.75E-06	2.88E-05	1.69E-05
1223	577147.5	4194042	6.90E-04	2.32E-03	1.81E-03	1.08E-04	3.75E-04	2.86E-04	4.72E-06	2.86E-05	1.68E-05
1224	577156.6	4194042	7.02E-04	2.36E-03	1.84E-03	1.09E-04	3.81E-04	2.91E-04	4.80E-06	2.91E-05	1.71E-05
1225	577165.7	4194041	7.12E-04	2.40E-03	1.87E-03	1.11E-04	3.86E-04	2.95E-04	4.87E-06	2.95E-05	1.73E-05
1226	577174.8	4194040	7.22E-04	2.43E-03	1.90E-03	1.13E-04	3.92E-04	2.99E-04	4.94E-06	2.99E-05	1.76E-05
1227	577183.9	4194039	7.32E-04	2.46E-03	1.92E-03	1.14E-04	3.97E-04	3.04E-04	5.01E-06	3.03E-05	1.78E-05
1228	577193	4194038	7.42E-04	2.50E-03	1.95E-03	1.16E-04	4.03E-04	3.08E-04	5.07E-06	3.07E-05	1.80E-05
1229	577202.1	4194038	7.51E-04	2.53E-03	1.97E-03	1.17E-04	4.08E-04	3.12E-04	5.14E-06	3.11E-05	1.83E-05
1230	577211.2	4194037	7.61E-04	2.56E-03	2.00E-03	1.19E-04	4.13E-04	3.16E-04	5.21E-06	3.15E-05	1.85E-05
1231	577220.3	4194036	7.71E-04	2.59E-03	2.02E-03	1.20E-04	4.18E-04	3.20E-04	5.27E-06	3.19E-05	1.88E-05
1232	577229.4	4194035	7.81E-04	2.63E-03	2.05E-03	1.22E-04	4.24E-04	3.24E-04	5.34E-06	3.23E-05	1.90E-05
1233	577238.5	4194034	7.90E-04	2.66E-03	2.07E-03	1.23E-04	4.29E-04	3.28E-04	5.40E-06	3.27E-05	1.92E-05
1234	577247.6	4194034	7.99E-04	2.69E-03	2.10E-03	1.24E-04	4.34E-04	3.31E-04	5.46E-06	3.31E-05	1.94E-05
1235	577256.7	4194033	8.07E-04	2.72E-03	2.12E-03	1.26E-04	4.38E-04	3.34E-04	5.52E-06	3.34E-05	1.96E-05
1236	577265.8	4194032	8.14E-04	2.74E-03	2.14E-03	1.27E-04	4.41E-04	3.37E-04	5.56E-06	3.37E-05	1.98E-05
1237	577045.7	4194110	6.22E-04	2.09E-03	1.63E-03	9.69E-05	3.37E-04	2.58E-04	4.25E-06	2.58E-05	1.51E-05
1238	577052.8	4194104	6.41E-04	2.16E-03	1.68E-03	9.98E-05	3.48E-04	2.66E-04	4.38E-06	2.65E-05	1.56E-05
1239	577059.9	4194098	6.57E-04	2.21E-03	1.73E-03	1.02E-04	3.56E-04	2.72E-04	4.49E-06	2.72E-05	1.60E-05
1240	577067	4194093	6.70E-04	2.26E-03	1.76E-03	1.04E-04	3.64E-04	2.78E-04	4.58E-06	2.78E-05	1.63E-05
1241	577074.1	4194087	6.80E-04	2.29E-03	1.79E-03	1.06E-04	3.69E-04	2.82E-04	4.65E-06	2.82E-05	1.66E-05
1242	577081.2	4194081	6.87E-04	2.31E-03	1.81E-03	1.07E-04	3.73E-04	2.85E-04	4.70E-06	2.85E-05	1.67E-05
1243	577088.3	4194075	6.91E-04	2.33E-03	1.81E-03	1.08E-04	3.75E-04	2.87E-04	4.73E-06	2.86E-05	1.68E-05
1244	577095.4	4194070	6.91E-04	2.33E-03	1.82E-03	1.08E-04	3.75E-04	2.87E-04	4.73E-06	2.86E-05	1.68E-05
1245	577102.5	4194064	6.88E-04	2.32E-03	1.81E-03	1.07E-04	3.74E-04	2.85E-04	4.71E-06	2.85E-05	1.67E-05
1246	577109.6	4194058	6.83E-04	2.30E-03	1.79E-03	1.06E-04	3.71E-04	2.83E-04	4.67E-06	2.83E-05	1.66E-05
1247	577116.7	4194052	6.75E-04	2.27E-03	1.77E-03	1.05E-04	3.66E-04	2.80E-04	4.61E-06	2.79E-05	1.64E-05
1248	577123.8	4194047	6.64E-04	2.24E-03	1.74E-03	1.04E-04	3.61E-04	2.75E-04	4.54E-06	2.75E-05	1.62E-05
1249	577130.9	4194041	6.52E-04	2.19E-03	1.71E-03	1.02E-04	3.54E-04	2.70E-04	4.46E-06	2.70E-05	1.59E-05
1250	577138	4194035	6.38E-04	2.15E-03	1.68E-03	9.95E-05	3.46E-04	2.65E-04	4.37E-06	2.64E-05	1.55E-05
1251	577147.1	4194033	6.43E-04	2.16E-03	1.69E-03	1.00E-04	3.49E-04	2.67E-04	4.40E-06	2.66E-05	1.56E-05
1252	577156.2	4194032	6.53E-04	2.20E-03	1.71E-03	1.02E-04	3.54E-04	2.71E-04	4.46E-06	2.70E-05	1.59E-05
1253	577165.3	4194031	6.61E-04	2.23E-03	1.74E-03	1.03E-04	3.59E-04	2.74E-04	4.52E-06	2.74E-05	1.61E-05
1254	577174.4	4194030	6.70E-04	2.26E-03	1.76E-03	1.04E-04	3.64E-04	2.78E-04	4.58E-06	2.78E-05	1.63E-05
1255	577183.5	4194030	6.79E-04	2.28E-03	1.78E-03	1.06E-04	3.68E-04	2.81E-04	4.64E-06	2.81E-05	1.65E-05
1256	577192.6	4194029	6.87E-04	2.31E-03	1.80E-03	1.07E-04	3.73E-04	2.85E-04	4.70E-06	2.85E-05	1.67E-05
1257	577201.7	4194028	6.96E-04	2.34E-03	1.83E-03	1.08E-04	3.78E-04	2.88E-04	4.76E-06	2.88E-05	1.69E-05
1258	577210.8	4194027	7.04E-04	2.37E-03	1.85E-03	1.10E-04	3.82E-04	2.92E-04	4.82E-06	2.92E-05	1.71E-05
1259	577219.9	4194026	7.13E-04	2.40E-03	1.87E-03	1.11E-04	3.87E-04	2.96E-04	4.88E-06	2.95E-05	1.73E-05
1260	577229	4194026	7.22E-04	2.43E-03	1.90E-03	1.12E-04	3.92E-04	2.99E-04	4.94E-06	2.99E-05	1.76E-05
1261	577238.1	4194025	7.30E-04	2.46E-03	1.92E-03	1.14E-04	3.96E-04	3.03E-04	4.99E-06	3.02E-05	1.78E-05
1262	577247.2	4194024	7.38E-04	2.48E-03	1.94E-03	1.15E-04	4.00E-04	3.06E-04	5.05E-06	3.06E-05	1.79E-05
1263	577256.3	4194023	7.45E-04	2.51E-03	1.96E-03	1.16E-04	4.04E-04	3.09E-04	5.09E-06	3.08E-05	1.81E-05
1264	577265.4	4194022	7.51E-04	2.53E-03	1.97E-03	1.17E-04	4.07E-04	3.11E-04	5.13E-06	3.11E-05	1.83E-05
1265	577037.4	4194104	5.77E-04	1.94E-03	1.51E-03	8.98E-05	3.13E-04	2.39E-04	3.94E-06	2.39E-05	1.40E-05
1266	577044.5	4194099	5.94E-04	2.00E-03	1.56E-03	9.25E-05	3.22E-04	2.46E-04	4.06E-06	2.46E-05	1.44E-05
1267	577051.6	4194093	6.09E-04	2.05E-03	1.60E-03	9.49E-05	3.30E-04	2.52E-04	4.16E-06	2.52E-05	1.48E-05
1268	577058.7	4194087	6.21E-04	2.09E-03	1.63E-03	9.68E-05	3.37E-04	2.58E-04	4.25E-06	2.57E-05	1.51E-05
1269	577065.8	4194081	6.31E-04	2.12E-03	1.66E-03	9.84E-05	3.43E-04	2.62E-04	4.32E-06	2.62E-05	1.54E-05
1270	577072.9	4194076	6.38E-04	2.15E-03	1.68E-03	9.95E-05	3.46E-04	2.65E-04	4.37E-06	2.64E-05	1.55E-05
1271	577080	4194070	6.42E-04	2.16E-03	1.69E-03	1.00E-04	3.49E-04	2.66E-04	4.39E-06	2.66E-05	1.56E-05
1272	577087.1	4194064	6.43E-04	2.17E-03	1.69E-03	1.00E-04	3.49E-04	2.67E-04	4.40E-06	2.67E-05	1.57E-05
1273	577094.2	4194058	6.42E-04	2.16E-03	1.69E-03	1.00E-04	3.48E-04	2.66E-04	4.39E-06	2.66E-05	1.56E-05
1274	577101.3	4194052	6.38E-04	2.15E-03	1.67E-03	9.94E-05	3.46E-04	2.64E-04	4.36E-06	2.64E-05	1.55E-05
1275	577108.4	4194047	6.31E-04	2.12E-03	1.66E-03	9.83E-05	3.43E-04	2.62E-04	4.32E-06	2.61E-05	1.54E-05
1276	577115.5	4194041	6.23E-04	2.10E-03	1.64E-03	9.70E-05	3.38E-04	2.58E-04	4.26E-06	2.58E-05	1.51E-05
1277	577122.6	4194035	6.12E-04	2.06E-03	1.61E-03	9.54E-05	3.32E-04	2.54E-04	4.19E-06	2.54E-05	1.49E-05

1278	577129.8	4194029	6.01E-04	2.02E-03	1.58E-03	9.36E-05	3.26E-04	2.49E-04	4.11E-06	2.49E-05	1.46E-05
1279	577137.1	4194024	5.90E-04	1.99E-03	1.55E-03	9.19E-05	3.20E-04	2.45E-04	4.04E-06	2.44E-05	1.44E-05
1280	577146.2	4194023	5.99E-04	2.02E-03	1.57E-03	9.34E-05	3.25E-04	2.48E-04	4.10E-06	2.48E-05	1.46E-05
1281	577155.3	4194023	6.07E-04	2.04E-03	1.60E-03	9.46E-05	3.30E-04	2.52E-04	4.15E-06	2.52E-05	1.48E-05
1282	577164.4	4194022	6.15E-04	2.07E-03	1.62E-03	9.58E-05	3.34E-04	2.55E-04	4.21E-06	2.55E-05	1.50E-05
1283	577173.5	4194021	6.23E-04	2.10E-03	1.64E-03	9.70E-05	3.38E-04	2.58E-04	4.26E-06	2.58E-05	1.51E-05
1284	577182.6	4194020	6.30E-04	2.12E-03	1.65E-03	9.82E-05	3.42E-04	2.61E-04	4.31E-06	2.61E-05	1.53E-05
1285	577191.7	4194019	6.38E-04	2.15E-03	1.67E-03	9.94E-05	3.46E-04	2.64E-04	4.36E-06	2.64E-05	1.55E-05
1286	577200.8	4194019	6.45E-04	2.17E-03	1.69E-03	1.01E-04	3.50E-04	2.68E-04	4.41E-06	2.67E-05	1.57E-05
1287	577210	4194018	6.53E-04	2.20E-03	1.72E-03	1.02E-04	3.54E-04	2.71E-04	4.47E-06	2.71E-05	1.59E-05
1288	577219.1	4194017	6.61E-04	2.23E-03	1.74E-03	1.03E-04	3.59E-04	2.74E-04	4.52E-06	2.74E-05	1.61E-05
1289	577228.2	4194016	6.69E-04	2.25E-03	1.76E-03	1.04E-04	3.63E-04	2.77E-04	4.57E-06	2.77E-05	1.63E-05
1290	577237.3	4194015	6.76E-04	2.28E-03	1.78E-03	1.05E-04	3.67E-04	2.80E-04	4.62E-06	2.80E-05	1.65E-05
1291	577246.4	4194014	6.83E-04	2.30E-03	1.79E-03	1.06E-04	3.71E-04	2.83E-04	4.67E-06	2.83E-05	1.66E-05
1292	577255.5	4194014	6.89E-04	2.32E-03	1.81E-03	1.07E-04	3.74E-04	2.86E-04	4.71E-06	2.85E-05	1.68E-05
1293	577264.6	4194013	6.95E-04	2.34E-03	1.82E-03	1.08E-04	3.77E-04	2.88E-04	4.75E-06	2.88E-05	1.69E-05
1294	577022	4194104	5.18E-04	1.74E-03	1.36E-03	8.07E-05	2.81E-04	2.15E-04	3.54E-06	2.14E-05	1.26E-05
1295	577029.1	4194099	5.36E-04	1.80E-03	1.41E-03	8.34E-05	2.91E-04	2.22E-04	3.66E-06	2.22E-05	1.30E-05
1296	577036.2	4194093	5.52E-04	1.86E-03	1.45E-03	8.59E-05	2.99E-04	2.29E-04	3.77E-06	2.29E-05	1.34E-05
1297	577043.3	4194087	5.66E-04	1.90E-03	1.49E-03	8.81E-05	3.07E-04	2.35E-04	3.87E-06	2.34E-05	1.38E-05
1298	577050.4	4194081	5.77E-04	1.94E-03	1.52E-03	9.00E-05	3.13E-04	2.39E-04	3.95E-06	2.39E-05	1.40E-05
1299	577057.5	4194076	5.87E-04	1.98E-03	1.54E-03	9.14E-05	3.19E-04	2.43E-04	4.01E-06	2.43E-05	1.43E-05
1300	577064.6	4194070	5.94E-04	2.00E-03	1.56E-03	9.25E-05	3.22E-04	2.46E-04	4.06E-06	2.46E-05	1.44E-05
1301	577071.7	4194064	5.98E-04	2.01E-03	1.57E-03	9.32E-05	3.25E-04	2.48E-04	4.09E-06	2.48E-05	1.46E-05
1302	577078.9	4194058	6.00E-04	2.02E-03	1.58E-03	9.35E-05	3.26E-04	2.49E-04	4.10E-06	2.49E-05	1.46E-05
1303	577086	4194053	5.99E-04	2.02E-03	1.57E-03	9.34E-05	3.25E-04	2.49E-04	4.10E-06	2.48E-05	1.46E-05
1304	577093.1	4194047	5.96E-04	2.01E-03	1.57E-03	9.29E-05	3.24E-04	2.47E-04	4.08E-06	2.47E-05	1.45E-05
1305	577100.2	4194041	5.91E-04	1.99E-03	1.55E-03	9.21E-05	3.21E-04	2.45E-04	4.04E-06	2.45E-05	1.44E-05
1306	577107.3	4194035	5.85E-04	1.97E-03	1.53E-03	9.11E-05	3.17E-04	2.42E-04	4.00E-06	2.42E-05	1.42E-05
1307	577114.4	4194030	5.76E-04	1.94E-03	1.51E-03	8.97E-05	3.12E-04	2.39E-04	3.94E-06	2.39E-05	1.40E-05
1308	577121.5	4194024	5.66E-04	1.90E-03	1.49E-03	8.82E-05	3.07E-04	2.35E-04	3.87E-06	2.34E-05	1.38E-05
1309	577128.6	4194018	5.55E-04	1.87E-03	1.46E-03	8.64E-05	3.01E-04	2.30E-04	3.79E-06	2.30E-05	1.35E-05
1310	577137.2	4194015	5.53E-04	1.86E-03	1.45E-03	8.61E-05	3.00E-04	2.29E-04	3.78E-06	2.29E-05	1.34E-05
1311	577146.3	4194014	5.60E-04	1.89E-03	1.47E-03	8.73E-05	3.04E-04	2.32E-04	3.83E-06	2.32E-05	1.36E-05
1312	577155.4	4194013	5.67E-04	1.91E-03	1.49E-03	8.84E-05	3.08E-04	2.35E-04	3.88E-06	2.35E-05	1.38E-05
1313	577164.5	4194012	5.74E-04	1.93E-03	1.51E-03	8.94E-05	3.11E-04	2.38E-04	3.93E-06	2.38E-05	1.40E-05
1314	577173.6	4194011	5.80E-04	1.95E-03	1.52E-03	9.04E-05	3.15E-04	2.41E-04	3.97E-06	2.40E-05	1.41E-05
1315	577182.7	4194011	5.87E-04	1.98E-03	1.54E-03	9.15E-05	3.19E-04	2.43E-04	4.01E-06	2.43E-05	1.43E-05
1316	577191.8	4194010	5.94E-04	2.00E-03	1.56E-03	9.25E-05	3.22E-04	2.46E-04	4.06E-06	2.46E-05	1.44E-05
1317	577200.9	4194009	6.01E-04	2.02E-03	1.58E-03	9.36E-05	3.26E-04	2.49E-04	4.11E-06	2.49E-05	1.46E-05
1318	577210.1	4194008	6.08E-04	2.05E-03	1.60E-03	9.47E-05	3.30E-04	2.52E-04	4.16E-06	2.52E-05	1.48E-05
1319	577219.2	4194007	6.15E-04	2.07E-03	1.62E-03	9.58E-05	3.34E-04	2.55E-04	4.21E-06	2.55E-05	1.50E-05
1320	577228.3	4194006	6.22E-04	2.09E-03	1.63E-03	9.69E-05	3.38E-04	2.58E-04	4.25E-06	2.58E-05	1.51E-05
1321	577237.4	4194006	6.29E-04	2.12E-03	1.65E-03	9.80E-05	3.41E-04	2.61E-04	4.30E-06	2.60E-05	1.53E-05
1322	577246.5	4194005	6.35E-04	2.14E-03	1.67E-03	9.89E-05	3.45E-04	2.63E-04	4.34E-06	2.63E-05	1.54E-05
1323	577255.6	4194004	6.40E-04	2.15E-03	1.68E-03	9.98E-05	3.47E-04	2.65E-04	4.38E-06	2.65E-05	1.56E-05
1324	577264.7	4194003	6.45E-04	2.17E-03	1.69E-03	1.01E-04	3.50E-04	2.67E-04	4.41E-06	2.67E-05	1.57E-05
1325	577273.9	4194002	6.49E-04	2.18E-03	1.70E-03	1.01E-04	3.52E-04	2.69E-04	4.44E-06	2.69E-05	1.58E-05
1326	577006.6	4194105	4.65E-04	1.57E-03	1.22E-03	7.25E-05	2.52E-04	1.93E-04	3.18E-06	1.93E-05	1.13E-05
1327	577013.7	4194099	4.82E-04	1.62E-03	1.27E-03	7.52E-05	2.62E-04	2.00E-04	3.30E-06	2.00E-05	1.17E-05
1328	577020.8	4194093	4.99E-04	1.68E-03	1.31E-03	7.77E-05	2.71E-04	2.07E-04	3.41E-06	2.07E-05	1.21E-05
1329	577027.9	4194087	5.13E-04	1.73E-03	1.35E-03	8.00E-05	2.79E-04	2.13E-04	3.51E-06	2.13E-05	1.25E-05
1330	577035	4194082	5.27E-04	1.77E-03	1.38E-03	8.20E-05	2.86E-04	2.18E-04	3.60E-06	2.18E-05	1.28E-05
1331	577042.1	4194076	5.38E-04	1.81E-03	1.41E-03	8.38E-05	2.92E-04	2.23E-04	3.68E-06	2.23E-05	1.31E-05
1332	577049.3	4194070	5.47E-04	1.84E-03	1.44E-03	8.52E-05	2.97E-04	2.27E-04	3.74E-06	2.26E-05	1.33E-05
1333	577056.4	4194064	5.54E-04	1.86E-03	1.45E-03	8.63E-05	3.00E-04	2.30E-04	3.79E-06	2.29E-05	1.35E-05
1334	577063.5	4194059	5.58E-04	1.88E-03	1.47E-03	8.70E-05	3.03E-04	2.31E-04	3.82E-06	2.31E-05	1.36E-05
1335	577070.6	4194053	5.61E-04	1.89E-03	1.47E-03	8.74E-05	3.04E-04	2.32E-04	3.83E-06	2.32E-05	1.36E-05
1336	577077.7	4194047	5.61E-04	1.89E-03	1.47E-03	8.74E-05	3.04E-04	2.33E-04	3.84E-06	2.32E-05	1.36E-05
1337	577084.8	4194041	5.59E-04	1.88E-03	1.47E-03	8.71E-05	3.03E-04	2.32E-04	3.82E-06	2.31E-05	1.36E-05
1338	577091.9	4194035	5.55E-04	1.87E-03	1.46E-03	8.65E-05	3.01E-04	2.30E-04	3.79E-06	2.30E-05	1.35E-05

1339	577099	4194030	5.49E-04	1.85E-03	1.44E-03	8.56E-05	2.98E-04	2.28E-04	3.76E-06	2.28E-05	1.34E-05
1340	577106.1	4194024	5.42E-04	1.82E-03	1.42E-03	8.45E-05	2.94E-04	2.25E-04	3.71E-06	2.25E-05	1.32E-05
1341	577113.3	4194018	5.34E-04	1.80E-03	1.40E-03	8.31E-05	2.90E-04	2.21E-04	3.65E-06	2.21E-05	1.30E-05
1342	577120.4	4194012	5.24E-04	1.76E-03	1.38E-03	8.16E-05	2.84E-04	2.17E-04	3.58E-06	2.17E-05	1.27E-05
1343	577127.5	4194007	5.13E-04	1.73E-03	1.35E-03	7.99E-05	2.78E-04	2.13E-04	3.51E-06	2.12E-05	1.25E-05
1344	577136.8	4194005	5.18E-04	1.74E-03	1.36E-03	8.07E-05	2.81E-04	2.15E-04	3.54E-06	2.14E-05	1.26E-05
1345	577145.9	4194004	5.24E-04	1.76E-03	1.38E-03	8.17E-05	2.84E-04	2.17E-04	3.59E-06	2.17E-05	1.28E-05
1346	577155	4194003	5.30E-04	1.78E-03	1.39E-03	8.26E-05	2.88E-04	2.20E-04	3.63E-06	2.20E-05	1.29E-05
1347	577164.1	4194003	5.36E-04	1.80E-03	1.41E-03	8.35E-05	2.91E-04	2.22E-04	3.67E-06	2.22E-05	1.30E-05
1348	577173.2	4194002	5.42E-04	1.82E-03	1.42E-03	8.44E-05	2.94E-04	2.25E-04	3.71E-06	2.24E-05	1.32E-05
1349	577182.3	4194001	5.48E-04	1.84E-03	1.44E-03	8.53E-05	2.97E-04	2.27E-04	3.75E-06	2.27E-05	1.33E-05
1350	577191.5	4194000	5.54E-04	1.86E-03	1.45E-03	8.63E-05	3.00E-04	2.30E-04	3.79E-06	2.29E-05	1.35E-05
1351	577200.6	4193999	5.60E-04	1.88E-03	1.47E-03	8.72E-05	3.04E-04	2.32E-04	3.83E-06	2.32E-05	1.36E-05
1352	577209.7	4193999	5.66E-04	1.91E-03	1.49E-03	8.83E-05	3.07E-04	2.35E-04	3.87E-06	2.35E-05	1.38E-05
1353	577218.8	4193998	5.73E-04	1.93E-03	1.50E-03	8.93E-05	3.11E-04	2.38E-04	3.92E-06	2.37E-05	1.39E-05
1354	577227.9	4193997	5.80E-04	1.95E-03	1.52E-03	9.03E-05	3.14E-04	2.40E-04	3.96E-06	2.40E-05	1.41E-05
1355	577237	4193996	5.86E-04	1.97E-03	1.54E-03	9.13E-05	3.18E-04	2.43E-04	4.01E-06	2.43E-05	1.42E-05
1356	577246.2	4193995	5.91E-04	1.99E-03	1.55E-03	9.21E-05	3.21E-04	2.45E-04	4.04E-06	2.45E-05	1.44E-05
1357	577255.3	4193994	5.96E-04	2.01E-03	1.57E-03	9.29E-05	3.23E-04	2.47E-04	4.08E-06	2.47E-05	1.45E-05
1358	577264.4	4193994	6.00E-04	2.02E-03	1.58E-03	9.35E-05	3.26E-04	2.49E-04	4.11E-06	2.49E-05	1.46E-05
1359	577273.5	4193993	6.04E-04	2.03E-03	1.59E-03	9.41E-05	3.28E-04	2.50E-04	4.13E-06	2.50E-05	1.47E-05
1360	576998.3	4194099	4.35E-04	1.46E-03	1.14E-03	6.77E-05	2.36E-04	1.80E-04	2.97E-06	1.80E-05	1.06E-05
1361	577005.4	4194093	4.51E-04	1.52E-03	1.18E-03	7.02E-05	2.45E-04	1.87E-04	3.08E-06	1.87E-05	1.10E-05
1362	577012.5	4194088	4.65E-04	1.57E-03	1.22E-03	7.25E-05	2.53E-04	1.93E-04	3.18E-06	1.93E-05	1.13E-05
1363	577019.6	4194082	4.79E-04	1.61E-03	1.26E-03	7.46E-05	2.60E-04	1.99E-04	3.27E-06	1.98E-05	1.16E-05
1364	577026.8	4194076	4.91E-04	1.65E-03	1.29E-03	7.65E-05	2.66E-04	2.04E-04	3.36E-06	2.03E-05	1.19E-05
1365	577033.9	4194070	5.02E-04	1.69E-03	1.32E-03	7.81E-05	2.72E-04	2.08E-04	3.43E-06	2.08E-05	1.22E-05
1366	577041	4194064	5.10E-04	1.72E-03	1.34E-03	7.95E-05	2.77E-04	2.12E-04	3.49E-06	2.11E-05	1.24E-05
1367	577048.1	4194059	5.17E-04	1.74E-03	1.36E-03	8.05E-05	2.80E-04	2.14E-04	3.53E-06	2.14E-05	1.26E-05
1368	577055.2	4194053	5.22E-04	1.76E-03	1.37E-03	8.13E-05	2.83E-04	2.16E-04	3.57E-06	2.16E-05	1.27E-05
1369	577062.3	4194047	5.25E-04	1.77E-03	1.38E-03	8.17E-05	2.85E-04	2.17E-04	3.59E-06	2.17E-05	1.28E-05
1370	577069.4	4194041	5.25E-04	1.77E-03	1.38E-03	8.19E-05	2.85E-04	2.18E-04	3.59E-06	2.18E-05	1.28E-05
1371	577076.5	4194036	5.24E-04	1.76E-03	1.38E-03	8.17E-05	2.84E-04	2.17E-04	3.58E-06	2.17E-05	1.28E-05
1372	577083.7	4194030	5.21E-04	1.75E-03	1.37E-03	8.12E-05	2.83E-04	2.16E-04	3.56E-06	2.16E-05	1.27E-05
1373	577090.8	4194024	5.17E-04	1.74E-03	1.36E-03	8.05E-05	2.80E-04	2.14E-04	3.53E-06	2.14E-05	1.26E-05
1374	577097.9	4194018	5.11E-04	1.72E-03	1.34E-03	7.96E-05	2.77E-04	2.12E-04	3.49E-06	2.12E-05	1.24E-05
1375	577105	4194013	5.04E-04	1.69E-03	1.32E-03	7.85E-05	2.73E-04	2.09E-04	3.44E-06	2.09E-05	1.22E-05
1376	577112.1	4194007	4.95E-04	1.67E-03	1.30E-03	7.71E-05	2.69E-04	2.05E-04	3.39E-06	2.05E-05	1.20E-05
1377	577119.2	4194001	4.86E-04	1.63E-03	1.28E-03	7.57E-05	2.64E-04	2.01E-04	3.32E-06	2.01E-05	1.18E-05
1378	577127.2	4193996	4.79E-04	1.61E-03	1.26E-03	7.47E-05	2.60E-04	1.99E-04	3.28E-06	1.99E-05	1.17E-05
1379	577136.4	4193995	4.86E-04	1.63E-03	1.28E-03	7.57E-05	2.64E-04	2.01E-04	3.32E-06	2.01E-05	1.18E-05
1380	577145.5	4193995	4.91E-04	1.65E-03	1.29E-03	7.66E-05	2.67E-04	2.04E-04	3.36E-06	2.04E-05	1.20E-05
1381	577154.6	4193994	4.97E-04	1.67E-03	1.30E-03	7.74E-05	2.70E-04	2.06E-04	3.40E-06	2.06E-05	1.21E-05
1382	577163.7	4193993	5.02E-04	1.69E-03	1.32E-03	7.82E-05	2.72E-04	2.08E-04	3.43E-06	2.08E-05	1.22E-05
1383	577172.8	4193992	5.07E-04	1.71E-03	1.33E-03	7.90E-05	2.75E-04	2.10E-04	3.47E-06	2.10E-05	1.23E-05
1384	577182	4193991	5.12E-04	1.72E-03	1.34E-03	7.98E-05	2.78E-04	2.12E-04	3.50E-06	2.12E-05	1.25E-05
1385	577191.1	4193991	5.17E-04	1.74E-03	1.36E-03	8.06E-05	2.81E-04	2.14E-04	3.54E-06	2.14E-05	1.26E-05
1386	577200.2	4193990	5.23E-04	1.76E-03	1.37E-03	8.15E-05	2.84E-04	2.17E-04	3.58E-06	2.17E-05	1.27E-05
1387	577209.3	4193989	5.29E-04	1.78E-03	1.39E-03	8.24E-05	2.87E-04	2.19E-04	3.62E-06	2.19E-05	1.29E-05
1388	577218.4	4193988	5.35E-04	1.80E-03	1.41E-03	8.34E-05	2.90E-04	2.22E-04	3.66E-06	2.22E-05	1.30E-05
1389	577227.6	4193987	5.41E-04	1.82E-03	1.42E-03	8.43E-05	2.94E-04	2.24E-04	3.70E-06	2.24E-05	1.32E-05
1390	577236.7	4193987	5.47E-04	1.84E-03	1.44E-03	8.52E-05	2.97E-04	2.27E-04	3.74E-06	2.26E-05	1.33E-05
1391	577245.8	4193986	5.52E-04	1.86E-03	1.45E-03	8.60E-05	2.99E-04	2.29E-04	3.77E-06	2.29E-05	1.34E-05
1392	577254.9	4193985	5.56E-04	1.87E-03	1.46E-03	8.66E-05	3.02E-04	2.31E-04	3.80E-06	2.30E-05	1.35E-05
1393	577264	4193984	5.60E-04	1.88E-03	1.47E-03	8.72E-05	3.04E-04	2.32E-04	3.83E-06	2.32E-05	1.36E-05
1394	577273.2	4193983	5.63E-04	1.89E-03	1.48E-03	8.77E-05	3.05E-04	2.33E-04	3.85E-06	2.33E-05	1.37E-05
1395	576990	4194093	4.07E-04	1.37E-03	1.07E-03	6.34E-05	2.21E-04	1.69E-04	2.78E-06	1.69E-05	9.90E-06
1396	576997.1	4194088	4.22E-04	1.42E-03	1.11E-03	6.57E-05	2.29E-04	1.75E-04	2.89E-06	1.75E-05	1.03E-05
1397	577004.2	4194082	4.35E-04	1.47E-03	1.14E-03	6.78E-05	2.36E-04	1.81E-04	2.98E-06	1.80E-05	1.06E-05
1398	577011.4	4194076	4.48E-04	1.51E-03	1.18E-03	6.98E-05	2.43E-04	1.86E-04	3.06E-06	1.85E-05	1.09E-05
1399	577018.5	4194070	4.59E-04	1.54E-03	1.21E-03	7.15E-05	2.49E-04	1.90E-04	3.14E-06	1.90E-05	1.12E-05

1400	577025.6	4194065	4.69E-04	1.58E-03	1.23E-03	7.31E-05	2.54E-04	1.94E-04	3.21E-06	1.94E-05	1.14E-05
1401	577032.7	4194059	4.77E-04	1.61E-03	1.25E-03	7.43E-05	2.59E-04	1.98E-04	3.26E-06	1.98E-05	1.16E-05
1402	577039.8	4194053	4.83E-04	1.63E-03	1.27E-03	7.53E-05	2.62E-04	2.00E-04	3.31E-06	2.00E-05	1.18E-05
1403	577046.9	4194047	4.88E-04	1.64E-03	1.28E-03	7.61E-05	2.65E-04	2.02E-04	3.34E-06	2.02E-05	1.19E-05
1404	577054.1	4194042	4.91E-04	1.65E-03	1.29E-03	7.66E-05	2.67E-04	2.04E-04	3.36E-06	2.04E-05	1.20E-05
1405	577061.2	4194036	4.93E-04	1.66E-03	1.29E-03	7.68E-05	2.67E-04	2.04E-04	3.37E-06	2.04E-05	1.20E-05
1406	577068.3	4194030	4.92E-04	1.66E-03	1.29E-03	7.67E-05	2.67E-04	2.04E-04	3.37E-06	2.04E-05	1.20E-05
1407	577075.4	4194024	4.90E-04	1.65E-03	1.29E-03	7.64E-05	2.66E-04	2.03E-04	3.35E-06	2.03E-05	1.19E-05
1408	577082.5	4194018	4.87E-04	1.64E-03	1.28E-03	7.58E-05	2.64E-04	2.02E-04	3.33E-06	2.02E-05	1.18E-05
1409	577089.6	4194013	4.82E-04	1.62E-03	1.27E-03	7.51E-05	2.61E-04	2.00E-04	3.30E-06	2.00E-05	1.17E-05
1410	577096.7	4194007	4.76E-04	1.60E-03	1.25E-03	7.41E-05	2.58E-04	1.97E-04	3.25E-06	1.97E-05	1.16E-05
1411	577103.9	4194001	4.69E-04	1.58E-03	1.23E-03	7.30E-05	2.54E-04	1.94E-04	3.20E-06	1.94E-05	1.14E-05
1412	577111	4193995	4.60E-04	1.55E-03	1.21E-03	7.17E-05	2.50E-04	1.91E-04	3.15E-06	1.91E-05	1.12E-05
1413	577118.1	4193990	4.51E-04	1.52E-03	1.19E-03	7.03E-05	2.45E-04	1.87E-04	3.09E-06	1.87E-05	1.10E-05
1414	577126.9	4193987	4.51E-04	1.52E-03	1.18E-03	7.03E-05	2.45E-04	1.87E-04	3.08E-06	1.87E-05	1.10E-05
1415	577136	4193986	4.56E-04	1.54E-03	1.20E-03	7.11E-05	2.48E-04	1.89E-04	3.12E-06	1.89E-05	1.11E-05
1416	577145.1	4193985	4.61E-04	1.55E-03	1.21E-03	7.19E-05	2.50E-04	1.91E-04	3.15E-06	1.91E-05	1.12E-05
1417	577154.2	4193984	4.66E-04	1.57E-03	1.22E-03	7.26E-05	2.53E-04	1.93E-04	3.19E-06	1.93E-05	1.13E-05
1418	577163.3	4193983	4.70E-04	1.58E-03	1.24E-03	7.33E-05	2.55E-04	1.95E-04	3.22E-06	1.95E-05	1.14E-05
1419	577172.5	4193983	4.75E-04	1.60E-03	1.25E-03	7.40E-05	2.58E-04	1.97E-04	3.25E-06	1.97E-05	1.16E-05
1420	577181.6	4193982	4.80E-04	1.61E-03	1.26E-03	7.47E-05	2.60E-04	1.99E-04	3.28E-06	1.99E-05	1.17E-05
1421	577190.7	4193981	4.84E-04	1.63E-03	1.27E-03	7.55E-05	2.63E-04	2.01E-04	3.31E-06	2.01E-05	1.18E-05
1422	577199.8	4193980	4.90E-04	1.65E-03	1.29E-03	7.63E-05	2.66E-04	2.03E-04	3.35E-06	2.03E-05	1.19E-05
1423	577209	4193979	4.95E-04	1.67E-03	1.30E-03	7.71E-05	2.69E-04	2.05E-04	3.39E-06	2.05E-05	1.20E-05
1424	577218.1	4193979	5.01E-04	1.68E-03	1.31E-03	7.80E-05	2.72E-04	2.08E-04	3.42E-06	2.07E-05	1.22E-05
1425	577227.2	4193978	5.06E-04	1.70E-03	1.33E-03	7.88E-05	2.75E-04	2.10E-04	3.46E-06	2.10E-05	1.23E-05
1426	577236.3	4193977	5.11E-04	1.72E-03	1.34E-03	7.96E-05	2.77E-04	2.12E-04	3.50E-06	2.12E-05	1.24E-05
1427	577245.4	4193976	5.16E-04	1.74E-03	1.35E-03	8.04E-05	2.80E-04	2.14E-04	3.53E-06	2.14E-05	1.25E-05
1428	577254.6	4193975	5.20E-04	1.75E-03	1.37E-03	8.10E-05	2.82E-04	2.16E-04	3.56E-06	2.15E-05	1.26E-05
1429	577263.7	4193974	5.23E-04	1.76E-03	1.37E-03	8.15E-05	2.84E-04	2.17E-04	3.58E-06	2.17E-05	1.27E-05
1430	577272.8	4193974	5.26E-04	1.77E-03	1.38E-03	8.19E-05	2.85E-04	2.18E-04	3.60E-06	2.18E-05	1.28E-05
1431	576981.7	4194088	3.82E-04	1.29E-03	1.00E-03	5.95E-05	2.07E-04	1.58E-04	2.61E-06	1.58E-05	9.29E-06
1432	576988.8	4194082	3.96E-04	1.33E-03	1.04E-03	6.16E-05	2.15E-04	1.64E-04	2.71E-06	1.64E-05	9.63E-06
1433	576996	4194076	4.08E-04	1.37E-03	1.07E-03	6.36E-05	2.21E-04	1.69E-04	2.79E-06	1.69E-05	9.93E-06
1434	577003.1	4194071	4.20E-04	1.41E-03	1.10E-03	6.54E-05	2.28E-04	1.74E-04	2.87E-06	1.74E-05	1.02E-05
1435	577010.2	4194065	4.30E-04	1.45E-03	1.13E-03	6.70E-05	2.33E-04	1.78E-04	2.94E-06	1.78E-05	1.05E-05
1436	577017.3	4194059	4.39E-04	1.48E-03	1.15E-03	6.85E-05	2.38E-04	1.82E-04	3.01E-06	1.82E-05	1.07E-05
1437	577024.4	4194053	4.47E-04	1.51E-03	1.17E-03	6.97E-05	2.43E-04	1.85E-04	3.06E-06	1.85E-05	1.09E-05
1438	577031.5	4194047	4.53E-04	1.53E-03	1.19E-03	7.06E-05	2.46E-04	1.88E-04	3.10E-06	1.88E-05	1.10E-05
1439	577038.7	4194042	4.58E-04	1.54E-03	1.20E-03	7.13E-05	2.48E-04	1.90E-04	3.13E-06	1.90E-05	1.11E-05
1440	577045.8	4194036	4.61E-04	1.55E-03	1.21E-03	7.18E-05	2.50E-04	1.91E-04	3.15E-06	1.91E-05	1.12E-05
1441	577052.9	4194030	4.63E-04	1.56E-03	1.22E-03	7.21E-05	2.51E-04	1.92E-04	3.17E-06	1.92E-05	1.13E-05
1442	577060	4194024	4.63E-04	1.56E-03	1.22E-03	7.21E-05	2.51E-04	1.92E-04	3.17E-06	1.92E-05	1.13E-05
1443	577067.1	4194019	4.62E-04	1.55E-03	1.21E-03	7.19E-05	2.50E-04	1.91E-04	3.16E-06	1.91E-05	1.12E-05
1444	577074.3	4194013	4.59E-04	1.54E-03	1.20E-03	7.15E-05	2.49E-04	1.90E-04	3.14E-06	1.90E-05	1.12E-05
1445	577081.4	4194007	4.55E-04	1.53E-03	1.19E-03	7.09E-05	2.47E-04	1.89E-04	3.11E-06	1.88E-05	1.11E-05
1446	577088.5	4194001	4.50E-04	1.51E-03	1.18E-03	7.01E-05	2.44E-04	1.86E-04	3.08E-06	1.86E-05	1.09E-05
1447	577095.6	4193996	4.44E-04	1.49E-03	1.17E-03	6.91E-05	2.41E-04	1.84E-04	3.03E-06	1.84E-05	1.08E-05
1448	577102.7	4193990	4.37E-04	1.47E-03	1.15E-03	6.80E-05	2.37E-04	1.81E-04	2.99E-06	1.81E-05	1.06E-05
1449	577109.8	4193984	4.29E-04	1.44E-03	1.13E-03	6.68E-05	2.33E-04	1.78E-04	2.93E-06	1.78E-05	1.04E-05
1450	577117	4193978	4.20E-04	1.41E-03	1.10E-03	6.55E-05	2.28E-04	1.74E-04	2.87E-06	1.74E-05	1.02E-05
1451	577126	4193977	4.25E-04	1.43E-03	1.11E-03	6.61E-05	2.30E-04	1.76E-04	2.90E-06	1.76E-05	1.03E-05
1452	577135.1	4193976	4.29E-04	1.44E-03	1.13E-03	6.69E-05	2.33E-04	1.78E-04	2.93E-06	1.78E-05	1.04E-05
1453	577144.2	4193976	4.33E-04	1.46E-03	1.14E-03	6.75E-05	2.35E-04	1.80E-04	2.96E-06	1.80E-05	1.05E-05
1454	577153.4	4193975	4.37E-04	1.47E-03	1.15E-03	6.82E-05	2.37E-04	1.81E-04	2.99E-06	1.81E-05	1.06E-05
1455	577162.5	4193974	4.41E-04	1.49E-03	1.16E-03	6.88E-05	2.40E-04	1.83E-04	3.02E-06	1.83E-05	1.07E-05
1456	577171.6	4193973	4.45E-04	1.50E-03	1.17E-03	6.94E-05	2.42E-04	1.85E-04	3.05E-06	1.85E-05	1.08E-05
1457	577180.7	4193972	4.50E-04	1.51E-03	1.18E-03	7.01E-05	2.44E-04	1.86E-04	3.08E-06	1.86E-05	1.09E-05
1458	577189.9	4193971	4.54E-04	1.53E-03	1.19E-03	7.08E-05	2.46E-04	1.88E-04	3.11E-06	1.88E-05	1.10E-05
1459	577199	4193971	4.59E-04	1.54E-03	1.21E-03	7.15E-05	2.49E-04	1.90E-04	3.14E-06	1.90E-05	1.12E-05
1460	577208.1	4193970	4.64E-04	1.56E-03	1.22E-03	7.23E-05	2.52E-04	1.92E-04	3.17E-06	1.92E-05	1.13E-05

1461	577217.2	4193969	4.69E-04	1.58E-03	1.23E-03	7.31E-05	2.54E-04	1.94E-04	3.21E-06	1.94E-05	1.14E-05
1462	577226.4	4193968	4.74E-04	1.60E-03	1.24E-03	7.38E-05	2.57E-04	1.96E-04	3.24E-06	1.96E-05	1.15E-05
1463	577235.5	4193967	4.79E-04	1.61E-03	1.26E-03	7.46E-05	2.60E-04	1.98E-04	3.27E-06	1.98E-05	1.16E-05
1464	577244.6	4193967	4.83E-04	1.63E-03	1.27E-03	7.53E-05	2.62E-04	2.00E-04	3.30E-06	2.00E-05	1.18E-05
1465	577253.7	4193966	4.87E-04	1.64E-03	1.28E-03	7.59E-05	2.64E-04	2.02E-04	3.33E-06	2.02E-05	1.18E-05
1466	577262.9	4193965	4.90E-04	1.65E-03	1.29E-03	7.63E-05	2.66E-04	2.03E-04	3.35E-06	2.03E-05	1.19E-05
1467	577272	4193964	4.92E-04	1.66E-03	1.29E-03	7.67E-05	2.67E-04	2.04E-04	3.37E-06	2.04E-05	1.20E-05
1468	577281.1	4193963	4.94E-04	1.66E-03	1.30E-03	7.69E-05	2.68E-04	2.05E-04	3.38E-06	2.05E-05	1.20E-05
1469	576973.4	4194082	3.59E-04	1.21E-03	9.42E-04	5.59E-05	1.95E-04	1.49E-04	2.45E-06	1.49E-05	8.73E-06
1470	576980.6	4194076	3.72E-04	1.25E-03	9.76E-04	5.79E-05	2.02E-04	1.54E-04	2.54E-06	1.54E-05	9.04E-06
1471	576987.7	4194071	3.83E-04	1.29E-03	1.01E-03	5.97E-05	2.08E-04	1.59E-04	2.62E-06	1.59E-05	9.32E-06
1472	576994.8	4194065	3.94E-04	1.33E-03	1.03E-03	6.14E-05	2.14E-04	1.63E-04	2.69E-06	1.63E-05	9.58E-06
1473	577001.9	4194059	4.04E-04	1.36E-03	1.06E-03	6.29E-05	2.19E-04	1.67E-04	2.76E-06	1.67E-05	9.82E-06
1474	577009	4194053	4.12E-04	1.39E-03	1.08E-03	6.43E-05	2.24E-04	1.71E-04	2.82E-06	1.71E-05	1.00E-05
1475	577016.2	4194048	4.20E-04	1.41E-03	1.10E-03	6.54E-05	2.28E-04	1.74E-04	2.87E-06	1.74E-05	1.02E-05
1476	577023.3	4194042	4.26E-04	1.43E-03	1.12E-03	6.63E-05	2.31E-04	1.77E-04	2.91E-06	1.76E-05	1.04E-05
1477	577030.4	4194036	4.30E-04	1.45E-03	1.13E-03	6.70E-05	2.34E-04	1.78E-04	2.94E-06	1.78E-05	1.05E-05
1478	577037.5	4194030	4.34E-04	1.46E-03	1.14E-03	6.75E-05	2.35E-04	1.80E-04	2.96E-06	1.80E-05	1.05E-05
1479	577044.6	4194025	4.35E-04	1.47E-03	1.14E-03	6.78E-05	2.36E-04	1.81E-04	2.98E-06	1.80E-05	1.06E-05
1480	577051.8	4194019	4.36E-04	1.47E-03	1.14E-03	6.79E-05	2.37E-04	1.81E-04	2.98E-06	1.81E-05	1.06E-05
1481	577058.9	4194013	4.35E-04	1.46E-03	1.14E-03	6.78E-05	2.36E-04	1.80E-04	2.98E-06	1.80E-05	1.06E-05
1482	577066	4194007	4.33E-04	1.46E-03	1.14E-03	6.75E-05	2.35E-04	1.80E-04	2.96E-06	1.79E-05	1.05E-05
1483	577073.1	4194001	4.30E-04	1.45E-03	1.13E-03	6.70E-05	2.33E-04	1.78E-04	2.94E-06	1.78E-05	1.05E-05
1484	577080.2	4193996	4.26E-04	1.43E-03	1.12E-03	6.63E-05	2.31E-04	1.76E-04	2.91E-06	1.76E-05	1.04E-05
1485	577087.3	4193990	4.20E-04	1.42E-03	1.10E-03	6.55E-05	2.28E-04	1.74E-04	2.88E-06	1.74E-05	1.02E-05
1486	577094.5	4193984	4.14E-04	1.39E-03	1.09E-03	6.46E-05	2.25E-04	1.72E-04	2.83E-06	1.72E-05	1.01E-05
1487	577101.6	4193978	4.08E-04	1.37E-03	1.07E-03	6.35E-05	2.21E-04	1.69E-04	2.79E-06	1.69E-05	9.91E-06
1488	577108.7	4193973	4.00E-04	1.35E-03	1.05E-03	6.23E-05	2.17E-04	1.66E-04	2.74E-06	1.66E-05	9.73E-06
1489	577116.9	4193968	3.96E-04	1.33E-03	1.04E-03	6.17E-05	2.15E-04	1.64E-04	2.71E-06	1.64E-05	9.64E-06
1490	577126.1	4193968	4.01E-04	1.35E-03	1.05E-03	6.24E-05	2.17E-04	1.66E-04	2.74E-06	1.66E-05	9.75E-06
1491	577135.2	4193967	4.05E-04	1.36E-03	1.06E-03	6.30E-05	2.20E-04	1.68E-04	2.77E-06	1.68E-05	9.84E-06
1492	577144.3	4193966	4.08E-04	1.37E-03	1.07E-03	6.36E-05	2.22E-04	1.69E-04	2.79E-06	1.69E-05	9.93E-06
1493	577153.5	4193965	4.12E-04	1.39E-03	1.08E-03	6.42E-05	2.23E-04	1.71E-04	2.82E-06	1.71E-05	1.00E-05
1494	577162.6	4193964	4.15E-04	1.40E-03	1.09E-03	6.47E-05	2.25E-04	1.72E-04	2.84E-06	1.72E-05	1.01E-05
1495	577171.7	4193963	4.19E-04	1.41E-03	1.10E-03	6.53E-05	2.27E-04	1.74E-04	2.87E-06	1.74E-05	1.02E-05
1496	577180.8	4193963	4.23E-04	1.42E-03	1.11E-03	6.59E-05	2.29E-04	1.75E-04	2.89E-06	1.75E-05	1.03E-05
1497	577190	4193962	4.27E-04	1.44E-03	1.12E-03	6.65E-05	2.32E-04	1.77E-04	2.92E-06	1.77E-05	1.04E-05
1498	577199.1	4193961	4.31E-04	1.45E-03	1.13E-03	6.72E-05	2.34E-04	1.79E-04	2.95E-06	1.79E-05	1.05E-05
1499	577208.2	4193960	4.36E-04	1.47E-03	1.15E-03	6.79E-05	2.37E-04	1.81E-04	2.98E-06	1.81E-05	1.06E-05
1500	577217.3	4193959	4.41E-04	1.48E-03	1.16E-03	6.87E-05	2.39E-04	1.83E-04	3.01E-06	1.83E-05	1.07E-05
1501	577226.5	4193959	4.45E-04	1.50E-03	1.17E-03	6.94E-05	2.42E-04	1.85E-04	3.04E-06	1.84E-05	1.08E-05
1502	577235.6	4193958	4.50E-04	1.51E-03	1.18E-03	7.01E-05	2.44E-04	1.86E-04	3.07E-06	1.86E-05	1.09E-05
1503	577244.7	4193957	4.54E-04	1.53E-03	1.19E-03	7.07E-05	2.46E-04	1.88E-04	3.10E-06	1.88E-05	1.10E-05
1504	577253.9	4193956	4.57E-04	1.54E-03	1.20E-03	7.12E-05	2.48E-04	1.90E-04	3.13E-06	1.89E-05	1.11E-05
1505	577263	4193955	4.60E-04	1.55E-03	1.21E-03	7.16E-05	2.49E-04	1.91E-04	3.14E-06	1.90E-05	1.12E-05
1506	577272.1	4193955	4.62E-04	1.55E-03	1.21E-03	7.20E-05	2.51E-04	1.91E-04	3.16E-06	1.91E-05	1.12E-05
1507	577281.2	4193954	4.63E-04	1.56E-03	1.22E-03	7.21E-05	2.51E-04	1.92E-04	3.17E-06	1.92E-05	1.13E-05
1508	576965.1	4194077	3.37E-04	1.14E-03	8.86E-04	5.26E-05	1.83E-04	1.40E-04	2.31E-06	1.40E-05	8.21E-06
1509	576972.3	4194071	3.50E-04	1.18E-03	9.19E-04	5.45E-05	1.90E-04	1.45E-04	2.39E-06	1.45E-05	8.51E-06
1510	576979.4	4194065	3.61E-04	1.21E-03	9.47E-04	5.62E-05	1.96E-04	1.49E-04	2.47E-06	1.49E-05	8.77E-06
1511	576986.5	4194059	3.70E-04	1.25E-03	9.73E-04	5.77E-05	2.01E-04	1.54E-04	2.53E-06	1.53E-05	9.01E-06
1512	576993.6	4194054	3.79E-04	1.28E-03	9.96E-04	5.91E-05	2.06E-04	1.57E-04	2.60E-06	1.57E-05	9.23E-06
1513	577000.8	4194048	3.88E-04	1.30E-03	1.02E-03	6.04E-05	2.10E-04	1.61E-04	2.65E-06	1.61E-05	9.43E-06
1514	577007.9	4194042	3.95E-04	1.33E-03	1.04E-03	6.15E-05	2.14E-04	1.64E-04	2.70E-06	1.64E-05	9.60E-06
1515	577015	4194036	4.00E-04	1.35E-03	1.05E-03	6.24E-05	2.17E-04	1.66E-04	2.74E-06	1.66E-05	9.74E-06
1516	577022.1	4194030	4.05E-04	1.36E-03	1.06E-03	6.31E-05	2.20E-04	1.68E-04	2.77E-06	1.68E-05	9.85E-06
1517	577029.2	4194025	4.08E-04	1.37E-03	1.07E-03	6.36E-05	2.22E-04	1.69E-04	2.79E-06	1.69E-05	9.93E-06
1518	577036.4	4194019	4.10E-04	1.38E-03	1.08E-03	6.39E-05	2.23E-04	1.70E-04	2.81E-06	1.70E-05	9.98E-06
1519	577043.5	4194013	4.11E-04	1.38E-03	1.08E-03	6.41E-05	2.23E-04	1.70E-04	2.81E-06	1.70E-05	1.00E-05
1520	577050.6	4194007	4.11E-04	1.38E-03	1.08E-03	6.40E-05	2.23E-04	1.70E-04	2.81E-06	1.70E-05	9.99E-06
1521	577057.7	4194002	4.09E-04	1.38E-03	1.07E-03	6.38E-05	2.22E-04	1.70E-04	2.80E-06	1.70E-05	9.96E-06

1522	577064.8	4193996	4.07E-04	1.37E-03	1.07E-03	6.34E-05	2.21E-04	1.69E-04	2.78E-06	1.68E-05	9.89E-06
1523	577072	4193990	4.03E-04	1.36E-03	1.06E-03	6.28E-05	2.19E-04	1.67E-04	2.76E-06	1.67E-05	9.81E-06
1524	577079.1	4193984	3.99E-04	1.34E-03	1.05E-03	6.21E-05	2.16E-04	1.65E-04	2.73E-06	1.65E-05	9.70E-06
1525	577086.2	4193979	3.94E-04	1.32E-03	1.03E-03	6.13E-05	2.14E-04	1.63E-04	2.69E-06	1.63E-05	9.58E-06
1526	577093.3	4193973	3.88E-04	1.30E-03	1.02E-03	6.04E-05	2.10E-04	1.61E-04	2.65E-06	1.61E-05	9.43E-06
1527	577100.5	4193967	3.81E-04	1.28E-03	1.00E-03	5.94E-05	2.07E-04	1.58E-04	2.61E-06	1.58E-05	9.27E-06
1528	577107.6	4193961	3.74E-04	1.26E-03	9.82E-04	5.83E-05	2.03E-04	1.55E-04	2.56E-06	1.55E-05	9.09E-06
1529	577116.6	4193959	3.75E-04	1.26E-03	9.84E-04	5.84E-05	2.03E-04	1.55E-04	2.56E-06	1.55E-05	9.11E-06
1530	577125.7	4193958	3.78E-04	1.27E-03	9.93E-04	5.89E-05	2.05E-04	1.57E-04	2.59E-06	1.57E-05	9.20E-06
1531	577134.8	4193957	3.82E-04	1.28E-03	1.00E-03	5.95E-05	2.07E-04	1.58E-04	2.61E-06	1.58E-05	9.29E-06
1532	577143.9	4193956	3.85E-04	1.30E-03	1.01E-03	6.00E-05	2.09E-04	1.60E-04	2.63E-06	1.59E-05	9.36E-06
1533	577153.1	4193956	3.88E-04	1.31E-03	1.02E-03	6.05E-05	2.11E-04	1.61E-04	2.65E-06	1.61E-05	9.44E-06
1534	577162.2	4193955	3.91E-04	1.32E-03	1.03E-03	6.10E-05	2.12E-04	1.62E-04	2.68E-06	1.62E-05	9.52E-06
1535	577171.3	4193954	3.95E-04	1.33E-03	1.04E-03	6.15E-05	2.14E-04	1.64E-04	2.70E-06	1.63E-05	9.60E-06
1536	577180.5	4193953	3.98E-04	1.34E-03	1.05E-03	6.20E-05	2.16E-04	1.65E-04	2.72E-06	1.65E-05	9.69E-06
1537	577189.6	4193952	4.02E-04	1.35E-03	1.06E-03	6.26E-05	2.18E-04	1.67E-04	2.75E-06	1.67E-05	9.78E-06
1538	577198.7	4193951	4.06E-04	1.37E-03	1.07E-03	6.33E-05	2.20E-04	1.68E-04	2.78E-06	1.68E-05	9.88E-06
1539	577207.8	4193951	4.10E-04	1.38E-03	1.08E-03	6.39E-05	2.23E-04	1.70E-04	2.81E-06	1.70E-05	9.98E-06
1540	577217	4193950	4.15E-04	1.40E-03	1.09E-03	6.46E-05	2.25E-04	1.72E-04	2.84E-06	1.72E-05	1.01E-05
1541	577226.1	4193949	4.19E-04	1.41E-03	1.10E-03	6.52E-05	2.27E-04	1.74E-04	2.86E-06	1.73E-05	1.02E-05
1542	577235.2	4193948	4.23E-04	1.42E-03	1.11E-03	6.59E-05	2.29E-04	1.75E-04	2.89E-06	1.75E-05	1.03E-05
1543	577244.4	4193947	4.26E-04	1.44E-03	1.12E-03	6.64E-05	2.31E-04	1.77E-04	2.92E-06	1.77E-05	1.04E-05
1544	577253.5	4193947	4.30E-04	1.45E-03	1.13E-03	6.69E-05	2.33E-04	1.78E-04	2.94E-06	1.78E-05	1.05E-05
1545	577262.6	4193946	4.32E-04	1.45E-03	1.13E-03	6.73E-05	2.34E-04	1.79E-04	2.96E-06	1.79E-05	1.05E-05
1546	577271.8	4193945	4.34E-04	1.46E-03	1.14E-03	6.76E-05	2.36E-04	1.80E-04	2.97E-06	1.80E-05	1.06E-05
1547	577280.9	4193944	4.35E-04	1.46E-03	1.14E-03	6.78E-05	2.36E-04	1.80E-04	2.98E-06	1.80E-05	1.06E-05
1548	577208.3	4194260	6.26E-03	2.11E-02	1.64E-02	9.76E-04	3.40E-03	2.60E-03	4.28E-05	2.59E-04	1.52E-04
1549	577200.5	4194250	5.60E-03	1.88E-02	1.47E-02	8.72E-04	3.04E-03	2.32E-03	3.83E-05	2.32E-04	1.36E-04
1550	577190.8	4194247	4.67E-03	1.57E-02	1.23E-02	7.27E-04	2.53E-03	1.94E-03	3.19E-05	1.93E-04	1.14E-04
1551	577183.5	4194239	4.26E-03	1.43E-02	1.12E-02	6.64E-04	2.31E-03	1.77E-03	2.91E-05	1.77E-04	1.04E-04
1552	577179.1	4194253	3.62E-03	1.22E-02	9.51E-03	5.64E-04	1.97E-03	1.50E-03	2.48E-05	1.50E-04	8.81E-05
1553	577174.2	4194236	3.67E-03	1.24E-02	9.65E-03	5.72E-04	1.99E-03	1.52E-03	2.51E-05	1.52E-04	8.94E-05
1554	577169.3	4194251	3.11E-03	1.05E-02	8.16E-03	4.84E-04	1.69E-03	1.29E-03	2.13E-05	1.29E-04	7.56E-05
1555	577165	4194233	3.16E-03	1.06E-02	8.30E-03	4.92E-04	1.71E-03	1.31E-03	2.16E-05	1.31E-04	7.68E-05
1556	577159.6	4194249	2.65E-03	8.91E-03	6.95E-03	4.13E-04	1.44E-03	1.10E-03	1.81E-05	1.10E-04	6.44E-05
1557	577154.7	4194232	2.67E-03	9.00E-03	7.02E-03	4.17E-04	1.45E-03	1.11E-03	1.83E-05	1.11E-04	6.51E-05
1558	577149.9	4194247	2.25E-03	7.58E-03	5.91E-03	3.51E-04	1.22E-03	9.33E-04	1.54E-05	9.32E-05	5.48E-05
1559	577145.4	4194228	2.32E-03	7.82E-03	6.10E-03	3.62E-04	1.26E-03	9.63E-04	1.59E-05	9.62E-05	5.65E-05
1560	577151.9	4194213	2.58E-03	8.69E-03	6.78E-03	4.02E-04	1.40E-03	1.07E-03	1.77E-05	1.07E-04	6.28E-05
1561	577140.1	4194244	1.93E-03	6.49E-03	5.07E-03	3.01E-04	1.05E-03	8.00E-04	1.32E-05	7.99E-05	4.69E-05
1562	577135.3	4194227	1.99E-03	6.71E-03	5.23E-03	3.10E-04	1.08E-03	8.26E-04	1.36E-05	8.25E-05	4.85E-05
1563	577141.1	4194214	2.21E-03	7.43E-03	5.79E-03	3.44E-04	1.20E-03	9.15E-04	1.51E-05	9.14E-05	5.37E-05
1564	577130.4	4194242	1.66E-03	5.60E-03	4.37E-03	2.59E-04	9.03E-04	6.90E-04	1.14E-05	6.89E-05	4.05E-05
1565	577125.8	4194224	1.73E-03	5.81E-03	4.53E-03	2.69E-04	9.37E-04	7.16E-04	1.18E-05	7.15E-05	4.20E-05
1566	577132.2	4194209	1.94E-03	6.52E-03	5.09E-03	3.02E-04	1.05E-03	8.03E-04	1.32E-05	8.02E-05	4.71E-05
1567	577120.6	4194240	1.44E-03	4.85E-03	3.79E-03	2.25E-04	7.83E-04	5.98E-04	9.86E-06	5.97E-05	3.51E-05
1568	577116.4	4194221	1.50E-03	5.06E-03	3.95E-03	2.34E-04	8.16E-04	6.23E-04	1.03E-05	6.23E-05	3.66E-05
1569	577123.3	4194205	1.70E-03	5.74E-03	4.47E-03	2.66E-04	9.25E-04	7.07E-04	1.17E-05	7.06E-05	4.15E-05
1570	577110.9	4194238	1.26E-03	4.22E-03	3.30E-03	1.96E-04	6.81E-04	5.20E-04	8.58E-06	5.20E-05	3.05E-05
1571	577106.3	4194220	1.30E-03	4.37E-03	3.41E-03	2.02E-04	7.05E-04	5.39E-04	8.89E-06	5.38E-05	3.16E-05
1572	577112.6	4194205	1.47E-03	4.95E-03	3.86E-03	2.29E-04	7.97E-04	6.09E-04	1.00E-05	6.09E-05	3.57E-05
1573	577101.2	4194235	1.10E-03	3.70E-03	2.89E-03	1.71E-04	5.97E-04	4.56E-04	7.52E-06	4.56E-05	2.68E-05
1574	577096.8	4194217	1.15E-03	3.87E-03	3.02E-03	1.79E-04	6.24E-04	4.77E-04	7.86E-06	4.76E-05	2.80E-05
1575	577103.6	4194201	1.31E-03	4.40E-03	3.43E-03	2.04E-04	7.09E-04	5.42E-04	8.94E-06	5.41E-05	3.18E-05
1576	577110.3	4194186	1.41E-03	4.74E-03	3.70E-03	2.19E-04	7.64E-04	5.84E-04	9.63E-06	5.83E-05	3.42E-05
1577	577091.4	4194233	9.73E-04	3.27E-03	2.56E-03	1.52E-04	5.28E-04	4.03E-04	6.65E-06	4.03E-05	2.37E-05
1578	577086.8	4194215	1.01E-03	3.40E-03	2.65E-03	1.57E-04	5.48E-04	4.19E-04	6.91E-06	4.19E-05	2.46E-05
1579	577093	4194201	1.14E-03	3.84E-03	3.00E-03	1.78E-04	6.20E-04	4.73E-04	7.81E-06	4.73E-05	2.78E-05
1580	577099.2	4194187	1.24E-03	4.16E-03	3.24E-03	1.93E-04	6.70E-04	5.12E-04	8.45E-06	5.12E-05	3.01E-05
1581	577081.7	4194231	8.65E-04	2.91E-03	2.27E-03	1.35E-04	4.69E-04	3.58E-04	5.91E-06	3.58E-05	2.10E-05
1582	577077.3	4194212	9.03E-04	3.04E-03	2.37E-03	1.41E-04	4.90E-04	3.74E-04	6.18E-06	3.74E-05	2.20E-05

1583	577083.9	4194197	1.03E-03	3.45E-03	2.69E-03	1.60E-04	5.56E-04	4.25E-04	7.01E-06	4.25E-05	2.49E-05
1584	577090.5	4194182	1.11E-03	3.74E-03	2.92E-03	1.73E-04	6.04E-04	4.61E-04	7.61E-06	4.61E-05	2.71E-05
1585	577072	4194228	7.71E-04	2.59E-03	2.02E-03	1.20E-04	4.18E-04	3.19E-04	5.27E-06	3.19E-05	1.87E-05
1586	577067.3	4194211	8.00E-04	2.69E-03	2.10E-03	1.25E-04	4.34E-04	3.32E-04	5.47E-06	3.31E-05	1.95E-05
1587	577073.4	4194196	9.04E-04	3.04E-03	2.37E-03	1.41E-04	4.91E-04	3.75E-04	6.18E-06	3.75E-05	2.20E-05
1588	577079.6	4194182	9.84E-04	3.31E-03	2.58E-03	1.53E-04	5.34E-04	4.08E-04	6.73E-06	4.08E-05	2.39E-05
1589	577062.2	4194226	6.87E-04	2.31E-03	1.80E-03	1.07E-04	3.73E-04	2.85E-04	4.70E-06	2.85E-05	1.67E-05
1590	577057.7	4194208	7.17E-04	2.41E-03	1.88E-03	1.12E-04	3.89E-04	2.97E-04	4.90E-06	2.97E-05	1.74E-05
1591	577064.2	4194193	8.14E-04	2.74E-03	2.14E-03	1.27E-04	4.42E-04	3.37E-04	5.57E-06	3.37E-05	1.98E-05
1592	577070.8	4194178	8.92E-04	3.00E-03	2.34E-03	1.39E-04	4.84E-04	3.70E-04	6.10E-06	3.70E-05	2.17E-05
1593	577077.3	4194163	9.38E-04	3.16E-03	2.46E-03	1.46E-04	5.09E-04	3.89E-04	6.41E-06	3.89E-05	2.28E-05
1594	577052.5	4194224	6.16E-04	2.07E-03	1.62E-03	9.59E-05	3.34E-04	2.55E-04	4.21E-06	2.55E-05	1.50E-05
1595	577048.2	4194205	6.45E-04	2.17E-03	1.69E-03	1.01E-04	3.50E-04	2.68E-04	4.41E-06	2.67E-05	1.57E-05
1596	577055.1	4194189	7.36E-04	2.48E-03	1.93E-03	1.15E-04	3.99E-04	3.05E-04	5.03E-06	3.05E-05	1.79E-05
1597	577061.9	4194174	8.10E-04	2.73E-03	2.13E-03	1.26E-04	4.39E-04	3.36E-04	5.54E-06	3.35E-05	1.97E-05
1598	577068.8	4194158	8.55E-04	2.88E-03	2.24E-03	1.33E-04	4.64E-04	3.54E-04	5.85E-06	3.54E-05	2.08E-05
1599	577042.7	4194222	5.54E-04	1.86E-03	1.45E-03	8.63E-05	3.00E-04	2.30E-04	3.79E-06	2.29E-05	1.35E-05
1600	577038.2	4194203	5.79E-04	1.95E-03	1.52E-03	9.02E-05	3.14E-04	2.40E-04	3.96E-06	2.40E-05	1.41E-05
1601	577044.7	4194189	6.55E-04	2.20E-03	1.72E-03	1.02E-04	3.55E-04	2.71E-04	4.48E-06	2.71E-05	1.59E-05
1602	577051.1	4194174	7.21E-04	2.43E-03	1.89E-03	1.12E-04	3.91E-04	2.99E-04	4.93E-06	2.99E-05	1.75E-05
1603	577057.5	4194159	7.69E-04	2.59E-03	2.02E-03	1.20E-04	4.17E-04	3.19E-04	5.26E-06	3.18E-05	1.87E-05
1604	577033	4194219	4.99E-04	1.68E-03	1.31E-03	7.77E-05	2.71E-04	2.07E-04	3.41E-06	2.07E-05	1.21E-05
1605	577028.6	4194201	5.26E-04	1.77E-03	1.38E-03	8.19E-05	2.85E-04	2.18E-04	3.60E-06	2.18E-05	1.28E-05
1606	577035.4	4194185	5.98E-04	2.01E-03	1.57E-03	9.32E-05	3.25E-04	2.48E-04	4.09E-06	2.48E-05	1.46E-05
1607	577042.2	4194170	6.59E-04	2.22E-03	1.73E-03	1.03E-04	3.58E-04	2.73E-04	4.51E-06	2.73E-05	1.60E-05
1608	577048.9	4194154	7.04E-04	2.37E-03	1.85E-03	1.10E-04	3.82E-04	2.92E-04	4.82E-06	2.92E-05	1.71E-05
1609	577023.3	4194217	4.52E-04	1.52E-03	1.19E-03	7.04E-05	2.45E-04	1.87E-04	3.09E-06	1.87E-05	1.10E-05
1610	577018.7	4194199	4.76E-04	1.60E-03	1.25E-03	7.42E-05	2.59E-04	1.98E-04	3.26E-06	1.97E-05	1.16E-05
1611	577025.1	4194184	5.39E-04	1.82E-03	1.42E-03	8.40E-05	2.93E-04	2.24E-04	3.69E-06	2.23E-05	1.31E-05
1612	577031.5	4194170	5.93E-04	2.00E-03	1.56E-03	9.25E-05	3.22E-04	2.46E-04	4.06E-06	2.46E-05	1.44E-05
1613	577037.8	4194155	6.35E-04	2.14E-03	1.67E-03	9.89E-05	3.45E-04	2.63E-04	4.34E-06	2.63E-05	1.54E-05
1614	577013.5	4194215	4.11E-04	1.38E-03	1.08E-03	6.40E-05	2.23E-04	1.70E-04	2.81E-06	1.70E-05	1.00E-05
1615	577009.1	4194196	4.37E-04	1.47E-03	1.15E-03	6.80E-05	2.37E-04	1.81E-04	2.99E-06	1.81E-05	1.06E-05
1616	577015.8	4194181	4.96E-04	1.67E-03	1.30E-03	7.73E-05	2.69E-04	2.06E-04	3.39E-06	2.06E-05	1.21E-05
1617	577022.4	4194166	5.47E-04	1.84E-03	1.44E-03	8.53E-05	2.97E-04	2.27E-04	3.74E-06	2.27E-05	1.33E-05
1618	577029.1	4194151	5.86E-04	1.97E-03	1.54E-03	9.13E-05	3.18E-04	2.43E-04	4.01E-06	2.43E-05	1.42E-05
1619	577035.8	4194135	6.13E-04	2.06E-03	1.61E-03	9.55E-05	3.32E-04	2.54E-04	4.19E-06	2.54E-05	1.49E-05
1620	577003.8	4194212	3.75E-04	1.26E-03	9.86E-04	5.85E-05	2.04E-04	1.56E-04	2.57E-06	1.56E-05	9.13E-06
1621	576999.5	4194194	4.02E-04	1.35E-03	1.05E-03	6.26E-05	2.18E-04	1.66E-04	2.75E-06	1.66E-05	9.77E-06
1622	577006.5	4194178	4.58E-04	1.54E-03	1.20E-03	7.13E-05	2.48E-04	1.90E-04	3.13E-06	1.90E-05	1.11E-05
1623	577013.4	4194162	5.06E-04	1.70E-03	1.33E-03	7.88E-05	2.74E-04	2.10E-04	3.46E-06	2.09E-05	1.23E-05
1624	577020.4	4194146	5.41E-04	1.82E-03	1.42E-03	8.43E-05	2.94E-04	2.24E-04	3.70E-06	2.24E-05	1.32E-05
1625	576994.1	4194210	3.44E-04	1.16E-03	9.04E-04	5.36E-05	1.87E-04	1.43E-04	2.35E-06	1.43E-05	8.38E-06
1626	576989.6	4194192	3.68E-04	1.24E-03	9.66E-04	5.73E-05	2.00E-04	1.52E-04	2.51E-06	1.52E-05	8.95E-06
1627	576996.2	4194177	4.17E-04	1.40E-03	1.09E-03	6.49E-05	2.26E-04	1.73E-04	2.85E-06	1.73E-05	1.01E-05
1628	577002.8	4194162	4.59E-04	1.55E-03	1.21E-03	7.16E-05	2.49E-04	1.90E-04	3.14E-06	1.90E-05	1.12E-05
1629	577009.4	4194147	4.92E-04	1.65E-03	1.29E-03	7.66E-05	2.67E-04	2.04E-04	3.36E-06	2.04E-05	1.20E-05
1630	577015.9	4194132	5.17E-04	1.74E-03	1.36E-03	8.05E-05	2.80E-04	2.14E-04	3.53E-06	2.14E-05	1.26E-05
1631	576984.3	4194208	3.17E-04	1.07E-03	8.32E-04	4.94E-05	1.72E-04	1.31E-04	2.17E-06	1.31E-05	7.71E-06
1632	576980	4194189	3.40E-04	1.14E-03	8.93E-04	5.30E-05	1.84E-04	1.41E-04	2.32E-06	1.41E-05	8.27E-06
1633	576986.8	4194174	3.86E-04	1.30E-03	1.01E-03	6.02E-05	2.10E-04	1.60E-04	2.64E-06	1.60E-05	9.40E-06
1634	576993.7	4194158	4.26E-04	1.43E-03	1.12E-03	6.64E-05	2.31E-04	1.77E-04	2.92E-06	1.77E-05	1.04E-05
1635	577000.5	4194142	4.57E-04	1.54E-03	1.20E-03	7.12E-05	2.48E-04	1.90E-04	3.13E-06	1.89E-05	1.11E-05
1636	577007.4	4194127	4.81E-04	1.62E-03	1.26E-03	7.49E-05	2.61E-04	1.99E-04	3.29E-06	1.99E-05	1.17E-05
1637	576974.6	4194206	2.93E-04	9.87E-04	7.70E-04	4.57E-05	1.59E-04	1.22E-04	2.01E-06	1.21E-05	7.13E-06
1638	576970.1	4194187	3.13E-04	1.05E-03	8.21E-04	4.87E-05	1.70E-04	1.30E-04	2.14E-06	1.30E-05	7.61E-06
1639	576976.6	4194172	3.53E-04	1.19E-03	9.27E-04	5.50E-05	1.92E-04	1.46E-04	2.41E-06	1.46E-05	8.59E-06
1640	576983.1	4194158	3.89E-04	1.31E-03	1.02E-03	6.07E-05	2.11E-04	1.61E-04	2.66E-06	1.61E-05	9.47E-06
1641	576989.7	4194143	4.18E-04	1.41E-03	1.10E-03	6.51E-05	2.27E-04	1.73E-04	2.86E-06	1.73E-05	1.02E-05
1642	576996.2	4194128	4.41E-04	1.48E-03	1.16E-03	6.87E-05	2.39E-04	1.83E-04	3.01E-06	1.83E-05	1.07E-05
1643	576964.9	4194203	2.72E-04	9.15E-04	7.14E-04	4.24E-05	1.48E-04	1.13E-04	1.86E-06	1.13E-05	6.62E-06

1644	576960.5	4194185	2.90E-04	9.76E-04	7.62E-04	4.52E-05	1.57E-04	1.20E-04	1.98E-06	1.20E-05	7.06E-06
1645	576967.2	4194169	3.28E-04	1.10E-03	8.60E-04	5.11E-05	1.78E-04	1.36E-04	2.24E-06	1.36E-05	7.97E-06
1646	576974	4194154	3.62E-04	1.22E-03	9.51E-04	5.64E-05	1.97E-04	1.50E-04	2.48E-06	1.50E-05	8.81E-06
1647	576980.8	4194138	3.90E-04	1.31E-03	1.02E-03	6.08E-05	2.12E-04	1.62E-04	2.67E-06	1.62E-05	9.49E-06
1648	576987.5	4194123	4.11E-04	1.38E-03	1.08E-03	6.41E-05	2.23E-04	1.71E-04	2.81E-06	1.70E-05	1.00E-05
1649	576955.1	4194201	2.53E-04	8.51E-04	6.64E-04	3.94E-05	1.37E-04	1.05E-04	1.73E-06	1.05E-05	6.15E-06
1650	576950.6	4194183	2.68E-04	9.02E-04	7.04E-04	4.18E-05	1.45E-04	1.11E-04	1.83E-06	1.11E-05	6.52E-06
1651	576957.1	4194168	3.01E-04	1.01E-03	7.89E-04	4.68E-05	1.63E-04	1.25E-04	2.06E-06	1.25E-05	7.31E-06
1652	576963.5	4194153	3.32E-04	1.12E-03	8.72E-04	5.17E-05	1.80E-04	1.38E-04	2.27E-06	1.37E-05	8.07E-06
1653	576970	4194139	3.58E-04	1.21E-03	9.41E-04	5.58E-05	1.95E-04	1.49E-04	2.45E-06	1.48E-05	8.72E-06
1654	576976.4	4194124	3.79E-04	1.27E-03	9.94E-04	5.90E-05	2.05E-04	1.57E-04	2.59E-06	1.57E-05	9.21E-06
1655	576945.4	4194199	2.35E-04	7.91E-04	6.17E-04	3.66E-05	1.27E-04	9.74E-05	1.61E-06	9.73E-06	5.71E-06
1656	576941	4194180	2.49E-04	8.40E-04	6.55E-04	3.89E-05	1.35E-04	1.03E-04	1.71E-06	1.03E-05	6.07E-06
1657	576947.7	4194165	2.81E-04	9.44E-04	7.37E-04	4.37E-05	1.52E-04	1.16E-04	1.92E-06	1.16E-05	6.83E-06
1658	576954.3	4194150	3.10E-04	1.04E-03	8.15E-04	4.84E-05	1.68E-04	1.29E-04	2.12E-06	1.29E-05	7.55E-06
1659	576961	4194134	3.36E-04	1.13E-03	8.82E-04	5.23E-05	1.82E-04	1.39E-04	2.30E-06	1.39E-05	8.17E-06
1660	576935.6	4194196	2.19E-04	7.36E-04	5.74E-04	3.41E-05	1.19E-04	9.06E-05	1.49E-06	9.05E-06	5.32E-06
1661	576931.4	4194178	2.33E-04	7.84E-04	6.11E-04	3.63E-05	1.26E-04	9.65E-05	1.59E-06	9.64E-06	5.66E-06
1662	576938.3	4194162	2.63E-04	8.84E-04	6.90E-04	4.09E-05	1.43E-04	1.09E-04	1.80E-06	1.09E-05	6.39E-06
1663	576945.2	4194146	2.91E-04	9.78E-04	7.63E-04	4.53E-05	1.58E-04	1.21E-04	1.99E-06	1.20E-05	7.07E-06
1664	576952.1	4194130	3.15E-04	1.06E-03	8.28E-04	4.91E-05	1.71E-04	1.31E-04	2.16E-06	1.31E-05	7.67E-06
1665	576925.9	4194194	2.04E-04	6.85E-04	5.35E-04	3.17E-05	1.10E-04	8.44E-05	1.39E-06	8.43E-06	4.95E-06
1666	576921.5	4194176	2.17E-04	7.29E-04	5.69E-04	3.38E-05	1.18E-04	8.98E-05	1.48E-06	8.98E-06	5.27E-06
1667	576928.1	4194161	2.43E-04	8.19E-04	6.39E-04	3.79E-05	1.32E-04	1.01E-04	1.67E-06	1.01E-05	5.92E-06
1668	576934.7	4194146	2.68E-04	9.02E-04	7.04E-04	4.18E-05	1.45E-04	1.11E-04	1.83E-06	1.11E-05	6.52E-06
1669	576941.3	4194130	2.90E-04	9.77E-04	7.62E-04	4.52E-05	1.58E-04	1.20E-04	1.99E-06	1.20E-05	7.06E-06
1670	576961.2	4194085	3.32E-04	1.12E-03	8.73E-04	5.18E-05	1.80E-04	1.38E-04	2.27E-06	1.38E-05	8.09E-06
1671	576916.2	4194192	1.90E-04	6.40E-04	4.99E-04	2.96E-05	1.03E-04	7.88E-05	1.30E-06	7.87E-06	4.62E-06
1672	577225.4	4194275	9.46E-03	3.18E-02	2.48E-02	1.47E-03	5.13E-03	3.92E-03	6.47E-05	3.92E-04	2.30E-04
1673	577234.3	4194277	1.28E-02	4.31E-02	3.36E-02	1.99E-03	6.95E-03	5.31E-03	8.76E-05	5.30E-04	3.11E-04
1674	577216.9	4194280	6.98E-03	2.35E-02	1.83E-02	1.09E-03	3.79E-03	2.89E-03	4.77E-05	2.89E-04	1.70E-04
1675	577232	4194286	1.15E-02	3.86E-02	3.01E-02	1.79E-03	6.22E-03	4.75E-03	7.84E-05	4.75E-04	2.79E-04
1676	577214.6	4194290	6.04E-03	2.03E-02	1.59E-02	9.42E-04	3.28E-03	2.51E-03	4.13E-05	2.50E-04	1.47E-04
1677	577201	4194273	4.61E-03	1.55E-02	1.21E-02	7.19E-04	2.50E-03	1.91E-03	3.15E-05	1.91E-04	1.12E-04
1678	577229.7	4194296	9.31E-03	3.13E-02	2.45E-02	1.45E-03	5.05E-03	3.86E-03	6.37E-05	3.86E-04	2.27E-04
1679	577212.3	4194299	4.38E-03	1.48E-02	1.15E-02	6.83E-04	2.38E-03	1.82E-03	3.00E-05	1.82E-04	1.07E-04
1680	577199.9	4194290	3.49E-03	1.18E-02	9.17E-03	5.44E-04	1.89E-03	1.45E-03	2.39E-05	1.45E-04	8.49E-05
1681	577192.5	4194278	3.40E-03	1.14E-02	8.92E-03	5.29E-04	1.84E-03	1.41E-03	2.32E-05	1.41E-04	8.27E-05
1682	577190	4194263	3.98E-03	1.34E-02	1.04E-02	6.20E-04	2.16E-03	1.65E-03	2.72E-05	1.65E-04	9.68E-05
1683	577209.9	4194309	2.45E-03	8.24E-03	6.43E-03	3.81E-04	1.33E-03	1.02E-03	1.67E-05	1.01E-04	5.96E-05
1684	577197.6	4194300	2.41E-03	8.11E-03	6.32E-03	3.75E-04	1.31E-03	9.99E-04	1.65E-05	9.98E-05	5.86E-05
1685	577184	4194284	2.46E-03	8.29E-03	6.47E-03	3.84E-04	1.34E-03	1.02E-03	1.68E-05	1.02E-04	5.99E-05
1686	577181.5	4194269	3.11E-03	1.05E-02	8.18E-03	4.85E-04	1.69E-03	1.29E-03	2.13E-05	1.29E-04	7.58E-05
1687	577195.3	4194310	1.49E-03	5.02E-03	3.91E-03	2.32E-04	8.09E-04	6.18E-04	1.02E-05	6.18E-05	3.63E-05
1688	577182.9	4194301	1.45E-03	4.87E-03	3.80E-03	2.25E-04	7.85E-04	6.00E-04	9.90E-06	5.99E-05	3.52E-05
1689	577175.5	4194289	1.74E-03	5.86E-03	4.57E-03	2.71E-04	9.45E-04	7.22E-04	1.19E-05	7.21E-05	4.24E-05
1690	577173	4194274	2.37E-03	7.98E-03	6.23E-03	3.70E-04	1.29E-03	9.83E-04	1.62E-05	9.82E-05	5.77E-05
1691	577166.8	4194293	1.27E-03	4.29E-03	3.34E-03	1.98E-04	6.91E-04	5.28E-04	8.71E-06	5.28E-05	3.10E-05
1692	577163.9	4194275	1.91E-03	6.43E-03	5.02E-03	2.98E-04	1.04E-03	7.92E-04	1.31E-05	7.92E-05	4.65E-05
1693	577158.3	4194298	9.21E-04	3.10E-03	2.42E-03	1.44E-04	5.00E-04	3.82E-04	6.30E-06	3.82E-05	2.24E-05
1694	577155.5	4194281	1.41E-03	4.75E-03	3.70E-03	2.20E-04	7.65E-04	5.85E-04	9.64E-06	5.84E-05	3.43E-05
1695	577152.7	4194264	1.91E-03	6.42E-03	5.01E-03	2.97E-04	1.04E-03	7.91E-04	1.31E-05	7.91E-05	4.64E-05
1696	577147	4194287	1.05E-03	3.53E-03	2.76E-03	1.64E-04	5.70E-04	4.35E-04	7.18E-06	4.35E-05	2.56E-05
1697	577144.3	4194270	1.46E-03	4.91E-03	3.83E-03	2.27E-04	7.91E-04	6.05E-04	9.97E-06	6.04E-05	3.55E-05
1698	577138.6	4194292	7.87E-04	2.65E-03	2.07E-03	1.23E-04	4.27E-04	3.26E-04	5.39E-06	3.26E-05	1.92E-05
1699	577135.8	4194276	1.12E-03	3.76E-03	2.93E-03	1.74E-04	6.06E-04	4.63E-04	7.63E-06	4.62E-05	2.71E-05
1700	577133.1	4194259	1.43E-03	4.81E-03	3.76E-03	2.23E-04	7.76E-04	5.93E-04	9.78E-06	5.93E-05	3.48E-05
1701	577127.4	4194281	8.63E-04	2.91E-03	2.27E-03	1.34E-04	4.68E-04	3.58E-04	5.90E-06	3.58E-05	2.10E-05
1702	577124.7	4194265	1.13E-03	3.81E-03	2.97E-03	1.76E-04	6.14E-04	4.69E-04	7.74E-06	4.69E-05	2.75E-05
1703	577118.9	4194287	6.76E-04	2.27E-03	1.78E-03	1.05E-04	3.67E-04	2.80E-04	4.62E-06	2.80E-05	1.64E-05
1704	577116.3	4194270	8.94E-04	3.01E-03	2.35E-03	1.39E-04	4.85E-04	3.71E-04	6.11E-06	3.70E-05	2.18E-05

1705	577113.6	4194254	1.11E-03	3.73E-03	2.91E-03	1.73E-04	6.01E-04	4.59E-04	7.58E-06	4.59E-05	2.69E-05
1706	577108.4	4194280	6.69E-04	2.25E-03	1.76E-03	1.04E-04	3.63E-04	2.77E-04	4.58E-06	2.77E-05	1.63E-05
1707	577107	4194271	7.70E-04	2.59E-03	2.02E-03	1.20E-04	4.18E-04	3.19E-04	5.26E-06	3.19E-05	1.87E-05
1708	577104.1	4194253	9.67E-04	3.26E-03	2.54E-03	1.51E-04	5.25E-04	4.01E-04	6.61E-06	4.01E-05	2.35E-05
1709	577098.6	4194277	6.18E-04	2.08E-03	1.62E-03	9.63E-05	3.35E-04	2.56E-04	4.23E-06	2.56E-05	1.50E-05
1710	577097.2	4194268	7.04E-04	2.37E-03	1.85E-03	1.10E-04	3.82E-04	2.92E-04	4.81E-06	2.92E-05	1.71E-05
1711	577094.3	4194251	8.64E-04	2.91E-03	2.27E-03	1.35E-04	4.69E-04	3.58E-04	5.91E-06	3.58E-05	2.10E-05
1712	577087.4	4194265	6.47E-04	2.18E-03	1.70E-03	1.01E-04	3.51E-04	2.68E-04	4.43E-06	2.68E-05	1.57E-05
1713	577084.5	4194248	7.75E-04	2.61E-03	2.04E-03	1.21E-04	4.21E-04	3.21E-04	5.30E-06	3.21E-05	1.89E-05
1714	577077.6	4194263	5.94E-04	2.00E-03	1.56E-03	9.25E-05	3.22E-04	2.46E-04	4.06E-06	2.46E-05	1.44E-05
1715	577074.8	4194246	6.98E-04	2.35E-03	1.83E-03	1.09E-04	3.79E-04	2.89E-04	4.77E-06	2.89E-05	1.70E-05
1716	577067.8	4194260	5.41E-04	1.82E-03	1.42E-03	8.42E-05	2.93E-04	2.24E-04	3.70E-06	2.24E-05	1.31E-05
1717	577065	4194243	6.24E-04	2.10E-03	1.64E-03	9.72E-05	3.39E-04	2.59E-04	4.27E-06	2.58E-05	1.52E-05
1718	577059.4	4194266	4.49E-04	1.51E-03	1.18E-03	7.00E-05	2.44E-04	1.86E-04	3.07E-06	1.86E-05	1.09E-05
1719	577056.6	4194249	5.26E-04	1.77E-03	1.38E-03	8.20E-05	2.85E-04	2.18E-04	3.60E-06	2.18E-05	1.28E-05
1720	577050	4194266	4.01E-04	1.35E-03	1.05E-03	6.25E-05	2.18E-04	1.66E-04	2.74E-06	1.66E-05	9.76E-06
1721	577048.6	4194257	4.36E-04	1.47E-03	1.15E-03	6.80E-05	2.37E-04	1.81E-04	2.98E-06	1.81E-05	1.06E-05
1722	577045.7	4194239	5.01E-04	1.69E-03	1.32E-03	7.81E-05	2.72E-04	2.08E-04	3.43E-06	2.08E-05	1.22E-05
1723	577044.2	4194231	5.29E-04	1.78E-03	1.39E-03	8.25E-05	2.87E-04	2.20E-04	3.62E-06	2.19E-05	1.29E-05
1724	577040.2	4194264	3.66E-04	1.23E-03	9.62E-04	5.71E-05	1.99E-04	1.52E-04	2.51E-06	1.52E-05	8.91E-06
1725	577037.3	4194246	4.24E-04	1.43E-03	1.11E-03	6.60E-05	2.30E-04	1.76E-04	2.90E-06	1.76E-05	1.03E-05
1726	577035.9	4194237	4.51E-04	1.52E-03	1.19E-03	7.03E-05	2.45E-04	1.87E-04	3.09E-06	1.87E-05	1.10E-05
1727	577030.4	4194261	3.32E-04	1.12E-03	8.72E-04	5.18E-05	1.80E-04	1.38E-04	2.27E-06	1.38E-05	8.08E-06
1728	577027.6	4194243	3.83E-04	1.29E-03	1.01E-03	5.97E-05	2.08E-04	1.59E-04	2.62E-06	1.59E-05	9.33E-06
1729	577026.1	4194235	4.08E-04	1.37E-03	1.07E-03	6.36E-05	2.22E-04	1.69E-04	2.79E-06	1.69E-05	9.93E-06
1730	577017.8	4194241	3.49E-04	1.17E-03	9.16E-04	5.43E-05	1.89E-04	1.45E-04	2.38E-06	1.44E-05	8.48E-06
1731	577009.5	4194247	2.98E-04	1.00E-03	7.82E-04	4.64E-05	1.62E-04	1.23E-04	2.04E-06	1.23E-05	7.24E-06
1732	577006.6	4194230	3.39E-04	1.14E-03	8.89E-04	5.28E-05	1.84E-04	1.40E-04	2.32E-06	1.40E-05	8.24E-06
1733	576999.7	4194245	2.73E-04	9.20E-04	7.18E-04	4.26E-05	1.48E-04	1.13E-04	1.87E-06	1.13E-05	6.65E-06
1734	576996.9	4194227	3.10E-04	1.05E-03	8.15E-04	4.84E-05	1.68E-04	1.29E-04	2.12E-06	1.29E-05	7.55E-06
1735	576990.2	4194244	2.49E-04	8.37E-04	6.53E-04	3.87E-05	1.35E-04	1.03E-04	1.70E-06	1.03E-05	6.05E-06
1736	576988.7	4194235	2.67E-04	8.97E-04	7.00E-04	4.15E-05	1.45E-04	1.11E-04	1.82E-06	1.10E-05	6.48E-06
1737	576987.3	4194226	2.84E-04	9.56E-04	7.46E-04	4.43E-05	1.54E-04	1.18E-04	1.94E-06	1.18E-05	6.91E-06
1738	576980.4	4194241	2.30E-04	7.74E-04	6.04E-04	3.58E-05	1.25E-04	9.54E-05	1.57E-06	9.53E-06	5.60E-06
1739	576978.9	4194232	2.47E-04	8.31E-04	6.48E-04	3.85E-05	1.34E-04	1.02E-04	1.69E-06	1.02E-05	6.01E-06
1740	576976	4194215	2.79E-04	9.38E-04	7.32E-04	4.34E-05	1.51E-04	1.16E-04	1.91E-06	1.15E-05	6.78E-06
1741	576969.2	4194230	2.30E-04	7.74E-04	6.04E-04	3.58E-05	1.25E-04	9.53E-05	1.57E-06	9.52E-06	5.59E-06
1742	576966.3	4194212	2.59E-04	8.71E-04	6.79E-04	4.03E-05	1.40E-04	1.07E-04	1.77E-06	1.07E-05	6.29E-06
1743	576960.8	4194236	2.01E-04	6.75E-04	5.27E-04	3.12E-05	1.09E-04	8.31E-05	1.37E-06	8.31E-06	4.88E-06
1744	576958	4194219	2.28E-04	7.68E-04	5.99E-04	3.55E-05	1.24E-04	9.45E-05	1.56E-06	9.45E-06	5.55E-06
1745	577171.6	4194539	3.31E-04	1.12E-03	8.70E-04	5.16E-05	1.80E-04	1.37E-04	2.27E-06	1.37E-05	8.06E-06
1746	577180.5	4194541	3.58E-04	1.21E-03	9.41E-04	5.58E-05	1.95E-04	1.49E-04	2.45E-06	1.48E-05	8.72E-06
1747	577153.2	4194542	2.62E-04	8.82E-04	6.88E-04	4.08E-05	1.42E-04	1.09E-04	1.79E-06	1.09E-05	6.38E-06
1748	577146	4194537	2.39E-04	8.03E-04	6.27E-04	3.72E-05	1.30E-04	9.90E-05	1.63E-06	9.89E-06	5.81E-06
1749	576951.1	4194234	1.88E-04	6.32E-04	4.93E-04	2.93E-05	1.02E-04	7.79E-05	1.28E-06	7.78E-06	4.57E-06
1750	576948.2	4194216	2.13E-04	7.15E-04	5.58E-04	3.31E-05	1.15E-04	8.81E-05	1.45E-06	8.80E-06	5.17E-06
1751	577169.3	4194549	3.13E-04	1.05E-03	8.22E-04	4.88E-05	1.70E-04	1.30E-04	2.14E-06	1.30E-05	7.62E-06
1752	577178.2	4194551	3.36E-04	1.13E-03	8.81E-04	5.23E-05	1.82E-04	1.39E-04	2.30E-06	1.39E-05	8.16E-06
1753	577150.9	4194552	2.49E-04	8.37E-04	6.53E-04	3.87E-05	1.35E-04	1.03E-04	1.70E-06	1.03E-05	6.05E-06
1754	577136.7	4194541	2.08E-04	6.99E-04	5.46E-04	3.24E-05	1.13E-04	8.61E-05	1.42E-06	8.61E-06	5.05E-06
1755	577122.4	4194531	1.66E-04	5.59E-04	4.36E-04	2.59E-05	9.01E-05	6.89E-05	1.14E-06	6.88E-06	4.04E-06
1756	576941.3	4194231	1.76E-04	5.92E-04	4.62E-04	2.74E-05	9.54E-05	7.29E-05	1.20E-06	7.28E-06	4.28E-06
1757	576938.5	4194214	1.98E-04	6.67E-04	5.20E-04	3.09E-05	1.08E-04	8.22E-05	1.36E-06	8.21E-06	4.82E-06
1758	577167	4194559	2.95E-04	9.94E-04	7.76E-04	4.60E-05	1.60E-04	1.22E-04	2.02E-06	1.22E-05	7.19E-06
1759	577175.9	4194561	3.14E-04	1.06E-03	8.24E-04	4.89E-05	1.70E-04	1.30E-04	2.15E-06	1.30E-05	7.63E-06
1760	577148.4	4194561	2.34E-04	7.87E-04	6.14E-04	3.64E-05	1.27E-04	9.69E-05	1.60E-06	9.68E-06	5.69E-06
1761	577141	4194556	2.16E-04	7.28E-04	5.68E-04	3.37E-05	1.17E-04	8.97E-05	1.48E-06	8.96E-06	5.26E-06
1762	577126.2	4194545	1.77E-04	5.96E-04	4.65E-04	2.76E-05	9.62E-05	7.35E-05	1.21E-06	7.34E-06	4.31E-06
1763	577118.9	4194540	1.58E-04	5.31E-04	4.14E-04	2.46E-05	8.56E-05	6.54E-05	1.08E-06	6.54E-06	3.84E-06
1764	577104.1	4194529	1.23E-04	4.14E-04	3.23E-04	1.92E-05	6.67E-05	5.10E-05	8.41E-07	5.09E-06	2.99E-06
1765	577096.7	4194524	1.10E-04	3.70E-04	2.89E-04	1.71E-05	5.97E-05	4.56E-05	7.53E-07	4.56E-06	2.68E-06

1766	576931.8	4194230	1.63E-04	5.49E-04	4.29E-04	2.54E-05	8.86E-05	6.77E-05	1.12E-06	6.76E-06	3.97E-06
1767	576930.3	4194221	1.74E-04	5.86E-04	4.58E-04	2.71E-05	9.46E-05	7.22E-05	1.19E-06	7.22E-06	4.24E-06
1768	576928.8	4194212	1.84E-04	6.21E-04	4.84E-04	2.87E-05	1.00E-04	7.65E-05	1.26E-06	7.64E-06	4.49E-06
1769	576927.4	4194203	1.94E-04	6.54E-04	5.10E-04	3.03E-05	1.05E-04	8.06E-05	1.33E-06	8.05E-06	4.73E-06
1770	577155.8	4194566	2.51E-04	8.44E-04	6.58E-04	3.91E-05	1.36E-04	1.04E-04	1.71E-06	1.04E-05	6.10E-06
1771	577164.7	4194569	2.75E-04	9.26E-04	7.23E-04	4.29E-05	1.49E-04	1.14E-04	1.88E-06	1.14E-05	6.70E-06
1772	577173.6	4194571	2.92E-04	9.83E-04	7.67E-04	4.55E-05	1.58E-04	1.21E-04	2.00E-06	1.21E-05	7.10E-06
1773	577146.1	4194571	2.20E-04	7.39E-04	5.77E-04	3.42E-05	1.19E-04	9.11E-05	1.50E-06	9.10E-06	5.34E-06
1774	577138.8	4194566	2.05E-04	6.90E-04	5.38E-04	3.19E-05	1.11E-04	8.50E-05	1.40E-06	8.49E-06	4.99E-06
1775	577131.4	4194560	1.89E-04	6.36E-04	4.96E-04	2.94E-05	1.03E-04	7.83E-05	1.29E-06	7.83E-06	4.60E-06
1776	577116.8	4194550	1.54E-04	5.17E-04	4.03E-04	2.39E-05	8.33E-05	6.37E-05	1.05E-06	6.36E-06	3.74E-06
1777	577102.1	4194539	1.22E-04	4.10E-04	3.20E-04	1.90E-05	6.61E-05	5.05E-05	8.33E-07	5.04E-06	2.96E-06
1778	577094.8	4194534	1.09E-04	3.68E-04	2.87E-04	1.70E-05	5.94E-05	4.54E-05	7.48E-07	4.53E-06	2.66E-06
1779	577080.1	4194523	8.79E-05	2.96E-04	2.31E-04	1.37E-05	4.77E-05	3.64E-05	6.01E-07	3.64E-06	2.14E-06
1780	577065.5	4194513	7.27E-05	2.45E-04	1.91E-04	1.13E-05	3.94E-05	3.01E-05	4.97E-07	3.01E-06	1.77E-06
1781	576920.5	4194219	1.63E-04	5.50E-04	4.29E-04	2.55E-05	8.87E-05	6.78E-05	1.12E-06	6.77E-06	3.98E-06
1782	576919.1	4194210	1.73E-04	5.81E-04	4.54E-04	2.69E-05	9.37E-05	7.16E-05	1.18E-06	7.15E-06	4.20E-06
1783	577162.3	4194578	2.56E-04	8.61E-04	6.72E-04	3.98E-05	1.39E-04	1.06E-04	1.75E-06	1.06E-05	6.22E-06
1784	577171.2	4194580	2.72E-04	9.16E-04	7.15E-04	4.24E-05	1.48E-04	1.13E-04	1.86E-06	1.13E-05	6.62E-06
1785	577190.1	4194292	2.39E-03	8.04E-03	6.27E-03	3.72E-04	1.30E-03	9.90E-04	1.63E-05	9.89E-05	5.81E-05
1786	577165.5	4194262	2.55E-03	8.57E-03	6.69E-03	3.97E-04	1.38E-03	1.06E-03	1.74E-05	1.06E-04	6.20E-05
1787	577212.2	4194272	6.39E-03	2.15E-02	1.68E-02	9.96E-04	3.47E-03	2.65E-03	4.37E-05	2.65E-04	1.56E-04
1788	577161.8	4194221	3.02E-03	1.02E-02	7.93E-03	4.71E-04	1.64E-03	1.25E-03	2.07E-05	1.25E-04	7.35E-05
1789	577191.8	4194546	3.88E-04	1.31E-03	1.02E-03	6.05E-05	2.11E-04	1.61E-04	2.65E-06	1.61E-05	9.44E-06
1790	577201.1	4194548	4.20E-04	1.41E-03	1.10E-03	6.54E-05	2.28E-04	1.74E-04	2.87E-06	1.74E-05	1.02E-05
1791	577210.4	4194550	4.53E-04	1.52E-03	1.19E-03	7.05E-05	2.46E-04	1.88E-04	3.10E-06	1.88E-05	1.10E-05
1792	577219.8	4194553	4.85E-04	1.63E-03	1.27E-03	7.56E-05	2.63E-04	2.01E-04	3.32E-06	2.01E-05	1.18E-05
1793	577229.1	4194555	5.19E-04	1.75E-03	1.36E-03	8.08E-05	2.81E-04	2.15E-04	3.55E-06	2.15E-05	1.26E-05
1794	577238.4	4194557	5.51E-04	1.86E-03	1.45E-03	8.59E-05	2.99E-04	2.29E-04	3.77E-06	2.28E-05	1.34E-05
1795	577247.8	4194559	5.82E-04	1.96E-03	1.53E-03	9.08E-05	3.16E-04	2.41E-04	3.98E-06	2.41E-05	1.42E-05
1796	577189.5	4194556	3.60E-04	1.21E-03	9.45E-04	5.61E-05	1.95E-04	1.49E-04	2.46E-06	1.49E-05	8.76E-06
1797	577198.8	4194558	3.86E-04	1.30E-03	1.01E-03	6.01E-05	2.09E-04	1.60E-04	2.64E-06	1.60E-05	9.38E-06
1798	577208.1	4194560	4.15E-04	1.40E-03	1.09E-03	6.47E-05	2.25E-04	1.72E-04	2.84E-06	1.72E-05	1.01E-05
1799	577217.4	4194562	4.44E-04	1.49E-03	1.17E-03	6.92E-05	2.41E-04	1.84E-04	3.04E-06	1.84E-05	1.08E-05
1800	577226.8	4194565	4.73E-04	1.59E-03	1.24E-03	7.37E-05	2.57E-04	1.96E-04	3.24E-06	1.96E-05	1.15E-05
1801	577236.1	4194567	5.03E-04	1.69E-03	1.32E-03	7.84E-05	2.73E-04	2.09E-04	3.44E-06	2.08E-05	1.22E-05
1802	577245.4	4194569	5.32E-04	1.79E-03	1.40E-03	8.28E-05	2.88E-04	2.20E-04	3.64E-06	2.20E-05	1.29E-05
1803	577187.1	4194565	3.34E-04	1.12E-03	8.77E-04	5.20E-05	1.81E-04	1.38E-04	2.28E-06	1.38E-05	8.13E-06
1804	577196.5	4194568	3.56E-04	1.20E-03	9.34E-04	5.54E-05	1.93E-04	1.47E-04	2.43E-06	1.47E-05	8.65E-06
1805	577205.8	4194570	3.82E-04	1.28E-03	1.00E-03	5.95E-05	2.07E-04	1.58E-04	2.61E-06	1.58E-05	9.29E-06
1806	577215.1	4194572	4.08E-04	1.37E-03	1.07E-03	6.35E-05	2.21E-04	1.69E-04	2.79E-06	1.69E-05	9.92E-06
1807	577224.4	4194574	4.33E-04	1.46E-03	1.14E-03	6.75E-05	2.35E-04	1.80E-04	2.96E-06	1.79E-05	1.05E-05
1808	577233.8	4194577	4.60E-04	1.55E-03	1.21E-03	7.17E-05	2.50E-04	1.91E-04	3.15E-06	1.91E-05	1.12E-05
1809	577243.1	4194579	4.87E-04	1.64E-03	1.28E-03	7.58E-05	2.64E-04	2.02E-04	3.33E-06	2.02E-05	1.18E-05
1810	577184.8	4194575	3.11E-04	1.05E-03	8.16E-04	4.84E-05	1.69E-04	1.29E-04	2.12E-06	1.29E-05	7.56E-06
1811	577194.1	4194577	3.29E-04	1.11E-03	8.64E-04	5.13E-05	1.79E-04	1.36E-04	2.25E-06	1.36E-05	8.00E-06
1812	577203.5	4194580	3.52E-04	1.19E-03	9.26E-04	5.49E-05	1.91E-04	1.46E-04	2.41E-06	1.46E-05	8.57E-06
1813	577212.8	4194582	3.76E-04	1.26E-03	9.86E-04	5.85E-05	2.04E-04	1.56E-04	2.57E-06	1.56E-05	9.14E-06
1814	577222.1	4194584	3.98E-04	1.34E-03	1.05E-03	6.20E-05	2.16E-04	1.65E-04	2.72E-06	1.65E-05	9.68E-06
1815	577231.5	4194586	4.22E-04	1.42E-03	1.11E-03	6.58E-05	2.29E-04	1.75E-04	2.89E-06	1.75E-05	1.03E-05
1816	577240.8	4194589	4.46E-04	1.50E-03	1.17E-03	6.95E-05	2.42E-04	1.85E-04	3.05E-06	1.85E-05	1.09E-05
1817	577182.5	4194585	2.90E-04	9.74E-04	7.60E-04	4.51E-05	1.57E-04	1.20E-04	1.98E-06	1.20E-05	7.04E-06
1818	577191.8	4194587	3.06E-04	1.03E-03	8.04E-04	4.77E-05	1.66E-04	1.27E-04	2.09E-06	1.27E-05	7.45E-06
1819	577201.1	4194589	3.26E-04	1.10E-03	8.57E-04	5.08E-05	1.77E-04	1.35E-04	2.23E-06	1.35E-05	7.94E-06
1820	577210.5	4194592	3.47E-04	1.17E-03	9.11E-04	5.40E-05	1.88E-04	1.44E-04	2.37E-06	1.44E-05	8.44E-06
1821	577219.8	4194594	3.66E-04	1.23E-03	9.62E-04	5.71E-05	1.99E-04	1.52E-04	2.51E-06	1.52E-05	8.91E-06
1822	577229.1	4194596	3.87E-04	1.30E-03	1.02E-03	6.03E-05	2.10E-04	1.61E-04	2.65E-06	1.60E-05	9.42E-06
1823	577238.5	4194598	4.09E-04	1.38E-03	1.07E-03	6.37E-05	2.22E-04	1.70E-04	2.80E-06	1.69E-05	9.95E-06
1824	577144.7	4194583	2.08E-04	7.00E-04	5.46E-04	3.24E-05	1.13E-04	8.62E-05	1.42E-06	8.61E-06	5.06E-06
1825	577137.2	4194577	1.95E-04	6.57E-04	5.13E-04	3.04E-05	1.06E-04	8.10E-05	1.34E-06	8.09E-06	4.75E-06
1826	577129.6	4194572	1.81E-04	6.07E-04	4.74E-04	2.81E-05	9.79E-05	7.48E-05	1.23E-06	7.48E-06	4.39E-06

1827	577122.1	4194566	1.65E-04	5.54E-04	4.32E-04	2.56E-05	8.93E-05	6.82E-05	1.13E-06	6.82E-06	4.00E-06
1828	577114.6	4194561	1.49E-04	5.01E-04	3.91E-04	2.32E-05	8.08E-05	6.17E-05	1.02E-06	6.17E-06	3.62E-06
1829	577107.1	4194555	1.34E-04	4.50E-04	3.51E-04	2.08E-05	7.25E-05	5.54E-05	9.14E-07	5.54E-06	3.25E-06
1830	577099.6	4194550	1.20E-04	4.03E-04	3.15E-04	1.87E-05	6.51E-05	4.97E-05	8.20E-07	4.97E-06	2.92E-06
1831	577092.1	4194545	1.08E-04	3.63E-04	2.83E-04	1.68E-05	5.85E-05	4.47E-05	7.37E-07	4.46E-06	2.62E-06
1832	577084.6	4194539	9.65E-05	3.25E-04	2.53E-04	1.50E-05	5.24E-05	4.00E-05	6.60E-07	4.00E-06	2.35E-06
1833	577077.1	4194534	8.64E-05	2.91E-04	2.27E-04	1.35E-05	4.69E-05	3.58E-05	5.91E-07	3.58E-06	2.10E-06
1834	577069.6	4194528	7.78E-05	2.62E-04	2.04E-04	1.21E-05	4.22E-05	3.23E-05	5.32E-07	3.22E-06	1.89E-06
1835	577062.1	4194523	7.09E-05	2.39E-04	1.86E-04	1.11E-05	3.85E-05	2.94E-05	4.85E-07	2.94E-06	1.73E-06
1836	577054.6	4194518	6.53E-05	2.20E-04	1.71E-04	1.02E-05	3.54E-05	2.71E-05	4.46E-07	2.70E-06	1.59E-06
1837	577047.1	4194512	6.07E-05	2.04E-04	1.59E-04	9.46E-06	3.29E-05	2.52E-05	4.15E-07	2.51E-06	1.48E-06
1838	577039.6	4194507	5.70E-05	1.92E-04	1.50E-04	8.89E-06	3.10E-05	2.36E-05	3.90E-07	2.36E-06	1.39E-06
1839	577032	4194501	5.41E-05	1.82E-04	1.42E-04	8.44E-06	2.94E-05	2.25E-05	3.70E-07	2.24E-06	1.32E-06
1840	577152.2	4194588	2.20E-04	7.41E-04	5.78E-04	3.43E-05	1.19E-04	9.13E-05	1.51E-06	9.12E-06	5.36E-06
1841	577161.5	4194590	2.40E-04	8.08E-04	6.30E-04	3.74E-05	1.30E-04	9.95E-05	1.64E-06	9.95E-06	5.84E-06
1842	577170.8	4194592	2.56E-04	8.63E-04	6.73E-04	4.00E-05	1.39E-04	1.06E-04	1.75E-06	1.06E-05	6.24E-06
1843	577180.2	4194595	2.72E-04	9.14E-04	7.13E-04	4.23E-05	1.47E-04	1.13E-04	1.86E-06	1.12E-05	6.61E-06
1844	577189.5	4194597	2.86E-04	9.64E-04	7.52E-04	4.46E-05	1.55E-04	1.19E-04	1.96E-06	1.19E-05	6.97E-06
1845	577198.8	4194599	3.03E-04	1.02E-03	7.95E-04	4.72E-05	1.64E-04	1.26E-04	2.07E-06	1.25E-05	7.37E-06
1846	577208.1	4194601	3.21E-04	1.08E-03	8.43E-04	5.00E-05	1.74E-04	1.33E-04	2.19E-06	1.33E-05	7.81E-06
1847	577217.5	4194604	3.38E-04	1.14E-03	8.88E-04	5.27E-05	1.84E-04	1.40E-04	2.31E-06	1.40E-05	8.23E-06
1848	577226.8	4194606	3.56E-04	1.20E-03	9.35E-04	5.55E-05	1.93E-04	1.48E-04	2.43E-06	1.47E-05	8.66E-06
1849	577236.1	4194608	3.76E-04	1.27E-03	9.87E-04	5.86E-05	2.04E-04	1.56E-04	2.57E-06	1.56E-05	9.15E-06
1850	577142.1	4194592	1.96E-04	6.61E-04	5.16E-04	3.06E-05	1.07E-04	8.14E-05	1.34E-06	8.13E-06	4.78E-06
1851	577134.3	4194586	1.85E-04	6.24E-04	4.87E-04	2.89E-05	1.01E-04	7.68E-05	1.27E-06	7.68E-06	4.51E-06
1852	577126.5	4194581	1.71E-04	5.74E-04	4.48E-04	2.66E-05	9.25E-05	7.07E-05	1.17E-06	7.06E-06	4.15E-06
1853	577118.7	4194575	1.56E-04	5.24E-04	4.09E-04	2.43E-05	8.45E-05	6.46E-05	1.06E-06	6.45E-06	3.79E-06
1854	577111	4194570	1.41E-04	4.75E-04	3.71E-04	2.20E-05	7.66E-05	5.85E-05	9.66E-07	5.85E-06	3.43E-06
1855	577103.2	4194564	1.27E-04	4.28E-04	3.34E-04	1.98E-05	6.90E-05	5.27E-05	8.69E-07	5.27E-06	3.09E-06
1856	577095.4	4194558	1.15E-04	3.86E-04	3.01E-04	1.79E-05	6.23E-05	4.76E-05	7.85E-07	4.75E-06	2.79E-06
1857	577087.6	4194553	1.03E-04	3.46E-04	2.70E-04	1.60E-05	5.58E-05	4.27E-05	7.04E-07	4.26E-06	2.50E-06
1858	577072.1	4194542	8.24E-05	2.77E-04	2.16E-04	1.28E-05	4.47E-05	3.42E-05	5.63E-07	3.41E-06	2.00E-06
1859	577064.3	4194536	7.45E-05	2.51E-04	1.96E-04	1.16E-05	4.04E-05	3.09E-05	5.10E-07	3.09E-06	1.81E-06
1860	577056.5	4194530	6.76E-05	2.27E-04	1.77E-04	1.05E-05	3.67E-05	2.80E-05	4.62E-07	2.80E-06	1.64E-06
1861	577048.8	4194525	6.17E-05	2.08E-04	1.62E-04	9.61E-06	3.35E-05	2.56E-05	4.22E-07	2.56E-06	1.50E-06
1862	577041	4194519	5.71E-05	1.92E-04	1.50E-04	8.90E-06	3.10E-05	2.37E-05	3.91E-07	2.37E-06	1.39E-06
1863	577033.2	4194514	5.34E-05	1.80E-04	1.40E-04	8.32E-06	2.90E-05	2.21E-05	3.65E-07	2.21E-06	1.30E-06
1864	577025.4	4194508	5.05E-05	1.70E-04	1.33E-04	7.87E-06	2.74E-05	2.10E-05	3.46E-07	2.09E-06	1.23E-06
1865	577017.7	4194502	4.86E-05	1.64E-04	1.28E-04	7.57E-06	2.64E-05	2.01E-05	3.32E-07	2.01E-06	1.18E-06
1866	577009.9	4194497	4.75E-05	1.60E-04	1.25E-04	7.41E-06	2.58E-05	1.97E-05	3.25E-07	1.97E-06	1.16E-06
1867	577002.1	4194491	4.68E-05	1.57E-04	1.23E-04	7.28E-06	2.54E-05	1.94E-05	3.20E-07	1.94E-06	1.14E-06
1868	577149.8	4194598	2.08E-04	7.00E-04	5.46E-04	3.24E-05	1.13E-04	8.62E-05	1.42E-06	8.61E-06	5.06E-06
1869	577159.2	4194600	2.26E-04	7.61E-04	5.94E-04	3.52E-05	1.23E-04	9.37E-05	1.55E-06	9.37E-06	5.50E-06
1870	577168.5	4194602	2.42E-04	8.16E-04	6.36E-04	3.78E-05	1.31E-04	1.00E-04	1.66E-06	1.00E-05	5.89E-06
1871	577177.8	4194604	2.56E-04	8.60E-04	6.71E-04	3.98E-05	1.39E-04	1.06E-04	1.75E-06	1.06E-05	6.22E-06
1872	577187.2	4194607	2.69E-04	9.04E-04	7.05E-04	4.18E-05	1.46E-04	1.11E-04	1.84E-06	1.11E-05	6.53E-06
1873	577196.5	4194609	2.82E-04	9.49E-04	7.41E-04	4.40E-05	1.53E-04	1.17E-04	1.93E-06	1.17E-05	6.86E-06
1874	577205.8	4194611	2.98E-04	1.00E-03	7.83E-04	4.65E-05	1.62E-04	1.24E-04	2.04E-06	1.23E-05	7.25E-06
1875	577215.1	4194613	3.13E-04	1.05E-03	8.23E-04	4.88E-05	1.70E-04	1.30E-04	2.14E-06	1.30E-05	7.62E-06
1876	577224.5	4194616	3.28E-04	1.10E-03	8.62E-04	5.11E-05	1.78E-04	1.36E-04	2.24E-06	1.36E-05	7.98E-06
1877	577233.8	4194618	3.47E-04	1.17E-03	9.11E-04	5.40E-05	1.88E-04	1.44E-04	2.37E-06	1.44E-05	8.44E-06
1878	577139.8	4194602	1.86E-04	6.27E-04	4.89E-04	2.90E-05	1.01E-04	7.72E-05	1.27E-06	7.71E-06	4.53E-06
1879	577132.1	4194596	1.76E-04	5.91E-04	4.61E-04	2.73E-05	9.53E-05	7.28E-05	1.20E-06	7.27E-06	4.27E-06
1880	577124.4	4194591	1.63E-04	5.48E-04	4.28E-04	2.54E-05	8.84E-05	6.75E-05	1.11E-06	6.74E-06	3.96E-06
1881	577116.7	4194585	1.50E-04	5.05E-04	3.94E-04	2.34E-05	8.14E-05	6.22E-05	1.03E-06	6.22E-06	3.65E-06
1882	577109	4194580	1.37E-04	4.61E-04	3.60E-04	2.14E-05	7.44E-05	5.68E-05	9.38E-07	5.68E-06	3.33E-06
1883	577101.3	4194574	1.25E-04	4.20E-04	3.28E-04	1.94E-05	6.77E-05	5.17E-05	8.53E-07	5.17E-06	3.03E-06
1884	577093.6	4194569	1.13E-04	3.82E-04	2.98E-04	1.77E-05	6.16E-05	4.71E-05	7.76E-07	4.70E-06	2.76E-06
1885	577085.8	4194563	1.02E-04	3.44E-04	2.69E-04	1.59E-05	5.55E-05	4.24E-05	7.00E-07	4.24E-06	2.49E-06
1886	577078.1	4194557	9.16E-05	3.08E-04	2.41E-04	1.43E-05	4.97E-05	3.80E-05	6.27E-07	3.80E-06	2.23E-06
1887	577070.4	4194552	8.24E-05	2.77E-04	2.16E-04	1.28E-05	4.47E-05	3.42E-05	5.64E-07	3.42E-06	2.01E-06

1888	577062.7	4194546	7.47E-05	2.52E-04	1.96E-04	1.16E-05	4.06E-05	3.10E-05	5.11E-07	3.10E-06	1.82E-06
1889	577055	4194541	6.78E-05	2.28E-04	1.78E-04	1.06E-05	3.68E-05	2.81E-05	4.64E-07	2.81E-06	1.65E-06
1890	577047.3	4194535	6.17E-05	2.08E-04	1.62E-04	9.62E-06	3.35E-05	2.56E-05	4.22E-07	2.56E-06	1.50E-06
1891	577039.6	4194530	5.65E-05	1.90E-04	1.48E-04	8.80E-06	3.07E-05	2.34E-05	3.86E-07	2.34E-06	1.37E-06
1892	577031.9	4194524	5.22E-05	1.76E-04	1.37E-04	8.13E-06	2.83E-05	2.16E-05	3.57E-07	2.16E-06	1.27E-06
1893	577024.2	4194519	4.90E-05	1.65E-04	1.29E-04	7.63E-06	2.66E-05	2.03E-05	3.35E-07	2.03E-06	1.19E-06
1894	577016.5	4194513	4.65E-05	1.57E-04	1.22E-04	7.25E-06	2.53E-05	1.93E-05	3.18E-07	1.93E-06	1.13E-06
1895	577008.8	4194507	4.51E-05	1.52E-04	1.18E-04	7.02E-06	2.45E-05	1.87E-05	3.08E-07	1.87E-06	1.10E-06
1896	577001.1	4194502	4.43E-05	1.49E-04	1.16E-04	6.90E-06	2.40E-05	1.84E-05	3.03E-07	1.83E-06	1.08E-06
1897	576993.3	4194496	4.40E-05	1.48E-04	1.16E-04	6.86E-06	2.39E-05	1.83E-05	3.01E-07	1.82E-06	1.07E-06
1898	576985.6	4194491	4.41E-05	1.48E-04	1.16E-04	6.87E-06	2.39E-05	1.83E-05	3.02E-07	1.83E-06	1.07E-06
1899	576977.9	4194485	4.49E-05	1.51E-04	1.18E-04	7.00E-06	2.44E-05	1.86E-05	3.07E-07	1.86E-06	1.09E-06
1900	576970.2	4194480	4.63E-05	1.56E-04	1.22E-04	7.21E-06	2.51E-05	1.92E-05	3.17E-07	1.92E-06	1.13E-06
1901	577147.5	4194607	1.97E-04	6.62E-04	5.16E-04	3.06E-05	1.07E-04	8.15E-05	1.35E-06	8.15E-06	4.78E-06
1902	577156.8	4194610	2.13E-04	7.18E-04	5.60E-04	3.32E-05	1.16E-04	8.85E-05	1.46E-06	8.84E-06	5.19E-06
1903	577166.2	4194612	2.30E-04	7.73E-04	6.03E-04	3.58E-05	1.25E-04	9.52E-05	1.57E-06	9.51E-06	5.59E-06
1904	577175.5	4194614	2.41E-04	8.13E-04	6.34E-04	3.76E-05	1.31E-04	1.00E-04	1.65E-06	1.00E-05	5.87E-06
1905	577184.8	4194616	2.53E-04	8.51E-04	6.64E-04	3.94E-05	1.37E-04	1.05E-04	1.73E-06	1.05E-05	6.15E-06
1906	577194.2	4194619	2.63E-04	8.86E-04	6.92E-04	4.10E-05	1.43E-04	1.09E-04	1.80E-06	1.09E-05	6.41E-06
1907	577203.5	4194621	2.78E-04	9.35E-04	7.29E-04	4.33E-05	1.51E-04	1.15E-04	1.90E-06	1.15E-05	6.76E-06
1908	577212.8	4194623	2.92E-04	9.82E-04	7.66E-04	4.54E-05	1.58E-04	1.21E-04	1.99E-06	1.21E-05	7.10E-06
1909	577222.2	4194625	3.05E-04	1.03E-03	8.01E-04	4.76E-05	1.66E-04	1.27E-04	2.09E-06	1.26E-05	7.42E-06
1910	577231.5	4194627	3.22E-04	1.08E-03	8.46E-04	5.02E-05	1.75E-04	1.34E-04	2.20E-06	1.33E-05	7.83E-06
1911	577137.5	4194612	1.77E-04	5.95E-04	4.64E-04	2.75E-05	9.59E-05	7.33E-05	1.21E-06	7.32E-06	4.30E-06
1912	577129.9	4194606	1.66E-04	5.60E-04	4.37E-04	2.59E-05	9.03E-05	6.90E-05	1.14E-06	6.90E-06	4.05E-06
1913	577122.3	4194601	1.55E-04	5.23E-04	4.08E-04	2.42E-05	8.43E-05	6.44E-05	1.06E-06	6.43E-06	3.78E-06
1914	577114.6	4194595	1.44E-04	4.85E-04	3.78E-04	2.25E-05	7.82E-05	5.98E-05	9.86E-07	5.97E-06	3.51E-06
1915	577107	4194590	1.33E-04	4.47E-04	3.49E-04	2.07E-05	7.21E-05	5.51E-05	9.09E-07	5.51E-06	3.23E-06
1916	577099.3	4194584	1.22E-04	4.12E-04	3.21E-04	1.91E-05	6.64E-05	5.07E-05	8.37E-07	5.07E-06	2.98E-06
1917	577091.7	4194579	1.12E-04	3.77E-04	2.94E-04	1.75E-05	6.09E-05	4.65E-05	7.67E-07	4.65E-06	2.73E-06
1918	577084	4194573	1.02E-04	3.43E-04	2.68E-04	1.59E-05	5.53E-05	4.22E-05	6.97E-07	4.22E-06	2.48E-06
1919	577076.4	4194568	9.18E-05	3.09E-04	2.41E-04	1.43E-05	4.98E-05	3.81E-05	6.28E-07	3.80E-06	2.23E-06
1920	577068.7	4194562	8.29E-05	2.79E-04	2.18E-04	1.29E-05	4.50E-05	3.44E-05	5.67E-07	3.43E-06	2.02E-06
1921	577061.1	4194557	7.48E-05	2.52E-04	1.96E-04	1.17E-05	4.06E-05	3.10E-05	5.11E-07	3.10E-06	1.82E-06
1922	577053.4	4194551	6.79E-05	2.29E-04	1.78E-04	1.06E-05	3.69E-05	2.82E-05	4.64E-07	2.81E-06	1.65E-06
1923	577045.8	4194545	6.18E-05	2.08E-04	1.62E-04	9.63E-06	3.35E-05	2.56E-05	4.23E-07	2.56E-06	1.50E-06
1924	577038.1	4194540	5.66E-05	1.91E-04	1.49E-04	8.82E-06	3.07E-05	2.35E-05	3.87E-07	2.35E-06	1.38E-06
1925	577030.5	4194534	5.21E-05	1.75E-04	1.37E-04	8.11E-06	2.83E-05	2.16E-05	3.56E-07	2.16E-06	1.27E-06
1926	577022.8	4194529	4.81E-05	1.62E-04	1.26E-04	7.49E-06	2.61E-05	1.99E-05	3.29E-07	1.99E-06	1.17E-06
1927	577015.2	4194523	4.50E-05	1.52E-04	1.18E-04	7.01E-06	2.44E-05	1.87E-05	3.08E-07	1.86E-06	1.10E-06
1928	577007.6	4194518	4.33E-05	1.46E-04	1.14E-04	6.74E-06	2.35E-05	1.79E-05	2.96E-07	1.79E-06	1.05E-06
1929	576999.9	4194512	4.21E-05	1.42E-04	1.11E-04	6.57E-06	2.29E-05	1.75E-05	2.88E-07	1.75E-06	1.03E-06
1930	576992.3	4194507	4.15E-05	1.40E-04	1.09E-04	6.46E-06	2.25E-05	1.72E-05	2.84E-07	1.72E-06	1.01E-06
1931	576984.6	4194501	4.13E-05	1.39E-04	1.08E-04	6.44E-06	2.24E-05	1.71E-05	2.83E-07	1.71E-06	1.01E-06
1932	576977	4194496	4.17E-05	1.40E-04	1.10E-04	6.50E-06	2.26E-05	1.73E-05	2.85E-07	1.73E-06	1.02E-06
1933	576969.3	4194490	4.26E-05	1.43E-04	1.12E-04	6.63E-06	2.31E-05	1.77E-05	2.91E-07	1.76E-06	1.04E-06
1934	576961.7	4194485	4.39E-05	1.48E-04	1.15E-04	6.84E-06	2.38E-05	1.82E-05	3.00E-07	1.82E-06	1.07E-06
1935	577145.2	4194617	1.86E-04	6.27E-04	4.89E-04	2.90E-05	1.01E-04	7.72E-05	1.27E-06	7.72E-06	4.53E-06
1936	577154.5	4194619	2.01E-04	6.77E-04	5.28E-04	3.14E-05	1.09E-04	8.34E-05	1.38E-06	8.34E-06	4.89E-06
1937	577163.9	4194622	2.17E-04	7.30E-04	5.70E-04	3.38E-05	1.18E-04	9.00E-05	1.48E-06	8.99E-06	5.28E-06
1938	577173.2	4194624	2.27E-04	7.65E-04	5.97E-04	3.54E-05	1.23E-04	9.42E-05	1.55E-06	9.41E-06	5.53E-06
1939	577182.5	4194626	2.37E-04	7.98E-04	6.23E-04	3.70E-05	1.29E-04	9.83E-05	1.62E-06	9.83E-06	5.77E-06
1940	577191.8	4194628	2.47E-04	8.30E-04	6.48E-04	3.84E-05	1.34E-04	1.02E-04	1.69E-06	1.02E-05	6.00E-06
1941	577201.2	4194631	2.59E-04	8.72E-04	6.81E-04	4.04E-05	1.41E-04	1.07E-04	1.77E-06	1.07E-05	6.31E-06
1942	577210.5	4194633	2.72E-04	9.16E-04	7.15E-04	4.24E-05	1.48E-04	1.13E-04	1.86E-06	1.13E-05	6.62E-06
1943	577219.8	4194635	2.85E-04	9.58E-04	7.48E-04	4.44E-05	1.55E-04	1.18E-04	1.95E-06	1.18E-05	6.93E-06
1944	577229.2	4194637	2.99E-04	1.01E-03	7.86E-04	4.67E-05	1.62E-04	1.24E-04	2.05E-06	1.24E-05	7.28E-06
1945	577135.3	4194621	1.68E-04	5.64E-04	4.40E-04	2.61E-05	9.10E-05	6.95E-05	1.15E-06	6.95E-06	4.08E-06
1946	577127.7	4194616	1.58E-04	5.33E-04	4.16E-04	2.47E-05	8.59E-05	6.56E-05	1.08E-06	6.56E-06	3.85E-06
1947	577120.1	4194610	1.48E-04	4.99E-04	3.90E-04	2.31E-05	8.05E-05	6.15E-05	1.01E-06	6.15E-06	3.61E-06
1948	577112.5	4194605	1.39E-04	4.66E-04	3.64E-04	2.16E-05	7.52E-05	5.74E-05	9.48E-07	5.74E-06	3.37E-06

1949	577104.9	4194600	1.29E-04	4.33E-04	3.38E-04	2.00E-05	6.98E-05	5.33E-05	8.80E-07	5.33E-06	3.13E-06
1950	577097.3	4194594	1.20E-04	4.03E-04	3.14E-04	1.86E-05	6.49E-05	4.96E-05	8.18E-07	4.96E-06	2.91E-06
1951	577089.7	4194589	1.11E-04	3.72E-04	2.91E-04	1.72E-05	6.00E-05	4.59E-05	7.57E-07	4.58E-06	2.69E-06
1952	577082.1	4194583	1.01E-04	3.41E-04	2.66E-04	1.58E-05	5.50E-05	4.20E-05	6.93E-07	4.20E-06	2.46E-06
1953	577074.6	4194578	9.19E-05	3.09E-04	2.41E-04	1.43E-05	4.99E-05	3.81E-05	6.29E-07	3.81E-06	2.24E-06
1954	577067	4194572	8.37E-05	2.82E-04	2.20E-04	1.30E-05	4.54E-05	3.47E-05	5.73E-07	3.47E-06	2.04E-06
1955	577059.4	4194567	7.59E-05	2.56E-04	1.99E-04	1.18E-05	4.12E-05	3.15E-05	5.19E-07	3.14E-06	1.85E-06
1956	577051.8	4194561	6.85E-05	2.31E-04	1.80E-04	1.07E-05	3.72E-05	2.84E-05	4.69E-07	2.84E-06	1.67E-06
1957	577044.2	4194556	6.18E-05	2.08E-04	1.62E-04	9.63E-06	3.35E-05	2.56E-05	4.23E-07	2.56E-06	1.50E-06
1958	577036.6	4194550	5.68E-05	1.91E-04	1.49E-04	8.85E-06	3.08E-05	2.36E-05	3.89E-07	2.35E-06	1.38E-06
1959	577029	4194545	5.23E-05	1.76E-04	1.37E-04	8.15E-06	2.84E-05	2.17E-05	3.58E-07	2.17E-06	1.27E-06
1960	577021.4	4194539	4.83E-05	1.63E-04	1.27E-04	7.52E-06	2.62E-05	2.00E-05	3.30E-07	2.00E-06	1.17E-06
1961	577013.8	4194534	4.48E-05	1.51E-04	1.18E-04	6.98E-06	2.43E-05	1.86E-05	3.06E-07	1.85E-06	1.09E-06
1962	577006.3	4194528	4.23E-05	1.42E-04	1.11E-04	6.58E-06	2.29E-05	1.75E-05	2.89E-07	1.75E-06	1.03E-06
1963	576998.7	4194523	4.06E-05	1.37E-04	1.07E-04	6.33E-06	2.20E-05	1.68E-05	2.78E-07	1.68E-06	9.88E-07
1964	576991.1	4194517	3.96E-05	1.33E-04	1.04E-04	6.18E-06	2.15E-05	1.64E-05	2.71E-07	1.64E-06	9.64E-07
1965	576983.5	4194512	3.91E-05	1.32E-04	1.03E-04	6.09E-06	2.12E-05	1.62E-05	2.67E-07	1.62E-06	9.51E-07
1966	576975.9	4194507	3.91E-05	1.32E-04	1.03E-04	6.09E-06	2.12E-05	1.62E-05	2.67E-07	1.62E-06	9.50E-07
1967	576968.3	4194501	3.95E-05	1.33E-04	1.04E-04	6.16E-06	2.14E-05	1.64E-05	2.70E-07	1.64E-06	9.62E-07
1968	576960.7	4194496	4.04E-05	1.36E-04	1.06E-04	6.30E-06	2.19E-05	1.68E-05	2.76E-07	1.67E-06	9.83E-07
1969	576953.1	4194490	4.17E-05	1.40E-04	1.09E-04	6.49E-06	2.26E-05	1.73E-05	2.85E-07	1.73E-06	1.01E-06
1970	576944	4194475	4.58E-05	1.54E-04	1.20E-04	7.13E-06	2.48E-05	1.90E-05	3.13E-07	1.90E-06	1.11E-06
1971	577142.9	4194627	1.76E-04	5.92E-04	4.62E-04	2.74E-05	9.54E-05	7.29E-05	1.20E-06	7.28E-06	4.28E-06
1972	577152.2	4194629	1.89E-04	6.37E-04	4.97E-04	2.95E-05	1.03E-04	7.84E-05	1.29E-06	7.84E-06	4.60E-06
1973	577161.5	4194631	2.03E-04	6.84E-04	5.34E-04	3.17E-05	1.10E-04	8.43E-05	1.39E-06	8.42E-06	4.95E-06
1974	577170.9	4194634	2.14E-04	7.20E-04	5.62E-04	3.33E-05	1.16E-04	8.87E-05	1.46E-06	8.86E-06	5.20E-06
1975	577180.2	4194636	2.23E-04	7.51E-04	5.86E-04	3.48E-05	1.21E-04	9.25E-05	1.53E-06	9.24E-06	5.43E-06
1976	577189.5	4194638	2.32E-04	7.80E-04	6.09E-04	3.61E-05	1.26E-04	9.61E-05	1.59E-06	9.61E-06	5.64E-06
1977	577198.8	4194640	2.42E-04	8.16E-04	6.37E-04	3.78E-05	1.32E-04	1.01E-04	1.66E-06	1.00E-05	5.90E-06
1978	577208.2	4194642	2.54E-04	8.56E-04	6.68E-04	3.96E-05	1.38E-04	1.06E-04	1.74E-06	1.05E-05	6.19E-06
1979	577217.5	4194645	2.66E-04	8.96E-04	6.99E-04	4.15E-05	1.44E-04	1.10E-04	1.82E-06	1.10E-05	6.47E-06
1980	577226.8	4194647	2.79E-04	9.39E-04	7.33E-04	4.35E-05	1.51E-04	1.16E-04	1.91E-06	1.16E-05	6.79E-06
1981	577268.8	4194557	6.91E-04	2.33E-03	1.81E-03	1.08E-04	3.75E-04	2.87E-04	4.73E-06	2.86E-05	1.68E-05
1982	577259.8	4194558	6.43E-04	2.17E-03	1.69E-03	1.00E-04	3.49E-04	2.67E-04	4.40E-06	2.67E-05	1.57E-05
1983	577289.9	4194565	7.41E-04	2.49E-03	1.95E-03	1.15E-04	4.02E-04	3.07E-04	5.07E-06	3.07E-05	1.80E-05
1984	577278	4194566	6.84E-04	2.30E-03	1.80E-03	1.07E-04	3.71E-04	2.84E-04	4.68E-06	2.83E-05	1.66E-05
1985	577266.2	4194567	6.28E-04	2.12E-03	1.65E-03	9.79E-05	3.41E-04	2.61E-04	4.30E-06	2.60E-05	1.53E-05
1986	577308.5	4194572	7.66E-04	2.58E-03	2.01E-03	1.19E-04	4.16E-04	3.18E-04	5.24E-06	3.17E-05	1.86E-05
1987	577296.6	4194573	7.20E-04	2.42E-03	1.89E-03	1.12E-04	3.91E-04	2.98E-04	4.92E-06	2.98E-05	1.75E-05
1988	577284.7	4194575	6.65E-04	2.24E-03	1.75E-03	1.04E-04	3.61E-04	2.76E-04	4.55E-06	2.75E-05	1.62E-05
1989	577272.9	4194576	6.14E-04	2.07E-03	1.61E-03	9.57E-05	3.33E-04	2.55E-04	4.20E-06	2.54E-05	1.49E-05
1990	577261	4194577	5.61E-04	1.89E-03	1.47E-03	8.74E-05	3.05E-04	2.33E-04	3.84E-06	2.32E-05	1.37E-05
1991	577333.3	4194579	7.69E-04	2.59E-03	2.02E-03	1.20E-04	4.17E-04	3.19E-04	5.26E-06	3.19E-05	1.87E-05
1992	577321.4	4194580	7.51E-04	2.53E-03	1.97E-03	1.17E-04	4.07E-04	3.11E-04	5.13E-06	3.11E-05	1.83E-05
1993	577309.4	4194582	7.18E-04	2.42E-03	1.89E-03	1.12E-04	3.90E-04	2.98E-04	4.91E-06	2.98E-05	1.75E-05
1994	577297.5	4194583	6.74E-04	2.27E-03	1.77E-03	1.05E-04	3.66E-04	2.80E-04	4.61E-06	2.79E-05	1.64E-05
1995	577285.6	4194584	6.23E-04	2.10E-03	1.64E-03	9.71E-05	3.38E-04	2.58E-04	4.26E-06	2.58E-05	1.52E-05
1996	577273.6	4194585	5.75E-04	1.94E-03	1.51E-03	8.96E-05	3.12E-04	2.39E-04	3.93E-06	2.38E-05	1.40E-05
1997	577261.7	4194586	5.26E-04	1.77E-03	1.38E-03	8.20E-05	2.86E-04	2.18E-04	3.60E-06	2.18E-05	1.28E-05
1998	577252.7	4194587	4.90E-04	1.65E-03	1.29E-03	7.63E-05	2.66E-04	2.03E-04	3.35E-06	2.03E-05	1.19E-05
1999	577358.2	4194586	7.11E-04	2.39E-03	1.87E-03	1.11E-04	3.86E-04	2.95E-04	4.86E-06	2.95E-05	1.73E-05
2000	577349.3	4194587	7.24E-04	2.44E-03	1.90E-03	1.13E-04	3.93E-04	3.00E-04	4.95E-06	3.00E-05	1.76E-05
2001	577340.3	4194588	7.28E-04	2.45E-03	1.91E-03	1.13E-04	3.95E-04	3.02E-04	4.98E-06	3.02E-05	1.77E-05
2002	577328.3	4194589	7.16E-04	2.41E-03	1.88E-03	1.12E-04	3.89E-04	2.97E-04	4.90E-06	2.97E-05	1.74E-05
2003	577319.3	4194590	6.98E-04	2.35E-03	1.83E-03	1.09E-04	3.79E-04	2.89E-04	4.77E-06	2.89E-05	1.70E-05
2004	577310.3	4194591	6.73E-04	2.27E-03	1.77E-03	1.05E-04	3.65E-04	2.79E-04	4.61E-06	2.79E-05	1.64E-05
2005	577301.3	4194592	6.44E-04	2.17E-03	1.69E-03	1.00E-04	3.49E-04	2.67E-04	4.40E-06	2.67E-05	1.57E-05
2006	577289.4	4194593	5.98E-04	2.01E-03	1.57E-03	9.31E-05	3.24E-04	2.48E-04	4.09E-06	2.48E-05	1.45E-05
2007	577280.4	4194594	5.62E-04	1.89E-03	1.48E-03	8.76E-05	3.05E-04	2.33E-04	3.84E-06	2.33E-05	1.37E-05
2008	577271.4	4194595	5.28E-04	1.78E-03	1.39E-03	8.23E-05	2.87E-04	2.19E-04	3.61E-06	2.19E-05	1.29E-05
2009	577259.4	4194596	4.82E-04	1.62E-03	1.27E-03	7.51E-05	2.62E-04	2.00E-04	3.30E-06	2.00E-05	1.17E-05

2010	577250.4	4194597	4.49E-04	1.51E-03	1.18E-03	6.99E-05	2.44E-04	1.86E-04	3.07E-06	1.86E-05	1.09E-05
2011	577377.3	4194594	6.30E-04	2.12E-03	1.65E-03	9.81E-05	3.42E-04	2.61E-04	4.31E-06	2.61E-05	1.53E-05
2012	577368.3	4194595	6.54E-04	2.20E-03	1.72E-03	1.02E-04	3.55E-04	2.71E-04	4.47E-06	2.71E-05	1.59E-05
2013	577359.3	4194596	6.71E-04	2.26E-03	1.76E-03	1.05E-04	3.64E-04	2.78E-04	4.59E-06	2.78E-05	1.63E-05
2014	577350.3	4194597	6.83E-04	2.30E-03	1.79E-03	1.06E-04	3.70E-04	2.83E-04	4.67E-06	2.83E-05	1.66E-05
2015	577341.3	4194597	6.85E-04	2.31E-03	1.80E-03	1.07E-04	3.72E-04	2.84E-04	4.69E-06	2.84E-05	1.67E-05
2016	577332.2	4194598	6.77E-04	2.28E-03	1.78E-03	1.06E-04	3.68E-04	2.81E-04	4.63E-06	2.81E-05	1.65E-05
2017	577323.2	4194599	6.62E-04	2.23E-03	1.74E-03	1.03E-04	3.59E-04	2.74E-04	4.53E-06	2.74E-05	1.61E-05
2018	577314.2	4194600	6.40E-04	2.15E-03	1.68E-03	9.97E-05	3.47E-04	2.65E-04	4.38E-06	2.65E-05	1.56E-05
2019	577305.2	4194601	6.14E-04	2.07E-03	1.61E-03	9.56E-05	3.33E-04	2.54E-04	4.20E-06	2.54E-05	1.49E-05
2020	577296.2	4194602	5.84E-04	1.96E-03	1.53E-03	9.09E-05	3.17E-04	2.42E-04	3.99E-06	2.42E-05	1.42E-05
2021	577287.2	4194603	5.51E-04	1.85E-03	1.45E-03	8.58E-05	2.99E-04	2.28E-04	3.77E-06	2.28E-05	1.34E-05
2022	577278.2	4194604	5.18E-04	1.74E-03	1.36E-03	8.07E-05	2.81E-04	2.15E-04	3.54E-06	2.15E-05	1.26E-05
2023	577269.2	4194605	4.86E-04	1.64E-03	1.28E-03	7.57E-05	2.64E-04	2.01E-04	3.32E-06	2.01E-05	1.18E-05
2024	577260.2	4194606	4.53E-04	1.52E-03	1.19E-03	7.06E-05	2.46E-04	1.88E-04	3.10E-06	1.88E-05	1.10E-05
2025	577251.2	4194607	4.22E-04	1.42E-03	1.11E-03	6.57E-05	2.29E-04	1.75E-04	2.88E-06	1.75E-05	1.03E-05
2026	577399.5	4194601	5.29E-04	1.78E-03	1.39E-03	8.25E-05	2.87E-04	2.19E-04	3.62E-06	2.19E-05	1.29E-05
2027	577390.4	4194602	5.60E-04	1.88E-03	1.47E-03	8.73E-05	3.04E-04	2.32E-04	3.83E-06	2.32E-05	1.36E-05
2028	577381.4	4194603	5.89E-04	1.98E-03	1.55E-03	9.17E-05	3.19E-04	2.44E-04	4.03E-06	2.44E-05	1.43E-05
2029	577372.4	4194604	6.13E-04	2.06E-03	1.61E-03	9.56E-05	3.33E-04	2.54E-04	4.20E-06	2.54E-05	1.49E-05
2030	577363.3	4194605	6.30E-04	2.12E-03	1.66E-03	9.82E-05	3.42E-04	2.61E-04	4.31E-06	2.61E-05	1.53E-05
2031	577354.3	4194606	6.42E-04	2.16E-03	1.69E-03	1.00E-04	3.48E-04	2.66E-04	4.39E-06	2.66E-05	1.56E-05
2032	577345.3	4194607	6.47E-04	2.18E-03	1.70E-03	1.01E-04	3.51E-04	2.68E-04	4.43E-06	2.68E-05	1.57E-05
2033	577336.2	4194607	6.42E-04	2.16E-03	1.68E-03	1.00E-04	3.48E-04	2.66E-04	4.39E-06	2.66E-05	1.56E-05
2034	577327.2	4194608	6.28E-04	2.11E-03	1.65E-03	9.79E-05	3.41E-04	2.60E-04	4.30E-06	2.60E-05	1.53E-05
2035	577318.1	4194609	6.09E-04	2.05E-03	1.60E-03	9.49E-05	3.30E-04	2.52E-04	4.16E-06	2.52E-05	1.48E-05
2036	577309.1	4194610	5.86E-04	1.97E-03	1.54E-03	9.13E-05	3.18E-04	2.43E-04	4.01E-06	2.43E-05	1.42E-05
2037	577300.1	4194611	5.59E-04	1.88E-03	1.47E-03	8.71E-05	3.03E-04	2.32E-04	3.82E-06	2.32E-05	1.36E-05
2038	577291	4194612	5.29E-04	1.78E-03	1.39E-03	8.25E-05	2.87E-04	2.20E-04	3.62E-06	2.19E-05	1.29E-05
2039	577282	4194613	4.98E-04	1.68E-03	1.31E-03	7.77E-05	2.70E-04	2.07E-04	3.41E-06	2.06E-05	1.21E-05
2040	577273	4194614	4.68E-04	1.58E-03	1.23E-03	7.29E-05	2.54E-04	1.94E-04	3.20E-06	1.94E-05	1.14E-05
2041	577263.9	4194615	4.37E-04	1.47E-03	1.15E-03	6.81E-05	2.37E-04	1.81E-04	2.99E-06	1.81E-05	1.06E-05
2042	577254.9	4194616	4.06E-04	1.37E-03	1.07E-03	6.33E-05	2.21E-04	1.69E-04	2.78E-06	1.68E-05	9.89E-06
2043	577245.9	4194617	3.80E-04	1.28E-03	9.98E-04	5.92E-05	2.06E-04	1.58E-04	2.60E-06	1.57E-05	9.25E-06
2044	577412.9	4194609	4.60E-04	1.55E-03	1.21E-03	7.17E-05	2.50E-04	1.91E-04	3.15E-06	1.91E-05	1.12E-05
2045	577401	4194610	5.02E-04	1.69E-03	1.32E-03	7.82E-05	2.73E-04	2.08E-04	3.43E-06	2.08E-05	1.22E-05
2046	577389.1	4194612	5.40E-04	1.82E-03	1.42E-03	8.41E-05	2.93E-04	2.24E-04	3.69E-06	2.24E-05	1.31E-05
2047	577377.2	4194613	5.73E-04	1.93E-03	1.50E-03	8.93E-05	3.11E-04	2.38E-04	3.92E-06	2.37E-05	1.39E-05
2048	577365.3	4194614	5.96E-04	2.01E-03	1.56E-03	9.28E-05	3.23E-04	2.47E-04	4.08E-06	2.47E-05	1.45E-05
2049	577353.4	4194615	6.08E-04	2.05E-03	1.60E-03	9.48E-05	3.30E-04	2.52E-04	4.16E-06	2.52E-05	1.48E-05
2050	577341.5	4194616	6.10E-04	2.05E-03	1.60E-03	9.50E-05	3.31E-04	2.53E-04	4.17E-06	2.53E-05	1.48E-05
2051	577329.6	4194618	5.95E-04	2.00E-03	1.56E-03	9.27E-05	3.23E-04	2.47E-04	4.07E-06	2.47E-05	1.45E-05
2052	577317.7	4194619	5.71E-04	1.92E-03	1.50E-03	8.90E-05	3.10E-04	2.37E-04	3.91E-06	2.37E-05	1.39E-05
2053	577305.8	4194620	5.41E-04	1.82E-03	1.42E-03	8.43E-05	2.94E-04	2.24E-04	3.70E-06	2.24E-05	1.32E-05
2054	577293.9	4194621	5.07E-04	1.71E-03	1.33E-03	7.90E-05	2.75E-04	2.10E-04	3.47E-06	2.10E-05	1.23E-05
2055	577282	4194622	4.70E-04	1.58E-03	1.23E-03	7.32E-05	2.55E-04	1.95E-04	3.21E-06	1.95E-05	1.14E-05
2056	577270.2	4194624	4.32E-04	1.45E-03	1.13E-03	6.73E-05	2.34E-04	1.79E-04	2.95E-06	1.79E-05	1.05E-05
2057	577258.3	4194625	3.94E-04	1.33E-03	1.04E-03	6.15E-05	2.14E-04	1.64E-04	2.70E-06	1.63E-05	9.60E-06
2058	577246.4	4194626	3.61E-04	1.21E-03	9.47E-04	5.62E-05	1.96E-04	1.50E-04	2.47E-06	1.49E-05	8.77E-06
2059	577429	4194617	3.89E-04	1.31E-03	1.02E-03	6.05E-05	2.11E-04	1.61E-04	2.66E-06	1.61E-05	9.45E-06
2060	577417.1	4194618	4.28E-04	1.44E-03	1.12E-03	6.66E-05	2.32E-04	1.77E-04	2.92E-06	1.77E-05	1.04E-05
2061	577405.2	4194619	4.67E-04	1.57E-03	1.23E-03	7.28E-05	2.54E-04	1.94E-04	3.20E-06	1.94E-05	1.14E-05
2062	577396.2	4194620	4.95E-04	1.67E-03	1.30E-03	7.71E-05	2.68E-04	2.05E-04	3.38E-06	2.05E-05	1.20E-05
2063	577384.3	4194622	5.28E-04	1.78E-03	1.39E-03	8.23E-05	2.87E-04	2.19E-04	3.61E-06	2.19E-05	1.29E-05
2064	577372.3	4194623	5.57E-04	1.87E-03	1.46E-03	8.68E-05	3.02E-04	2.31E-04	3.81E-06	2.31E-05	1.35E-05
2065	577363.4	4194624	5.69E-04	1.92E-03	1.49E-03	8.87E-05	3.09E-04	2.36E-04	3.89E-06	2.36E-05	1.38E-05
2066	577351.5	4194625	5.78E-04	1.95E-03	1.52E-03	9.01E-05	3.14E-04	2.40E-04	3.95E-06	2.40E-05	1.41E-05
2067	577339.5	4194626	5.76E-04	1.94E-03	1.51E-03	8.97E-05	3.12E-04	2.39E-04	3.94E-06	2.39E-05	1.40E-05
2068	577327.6	4194627	5.59E-04	1.88E-03	1.47E-03	8.71E-05	3.03E-04	2.32E-04	3.82E-06	2.32E-05	1.36E-05
2069	577318.7	4194628	5.41E-04	1.82E-03	1.42E-03	8.42E-05	2.93E-04	2.24E-04	3.70E-06	2.24E-05	1.32E-05
2070	577306.7	4194629	5.13E-04	1.73E-03	1.35E-03	7.99E-05	2.78E-04	2.13E-04	3.51E-06	2.12E-05	1.25E-05

2071	577294.8	4194631	4.81E-04	1.62E-03	1.26E-03	7.49E-05	2.61E-04	1.99E-04	3.29E-06	1.99E-05	1.17E-05
2072	577285.8	4194631	4.55E-04	1.53E-03	1.19E-03	7.09E-05	2.47E-04	1.89E-04	3.11E-06	1.88E-05	1.11E-05
2073	577273.9	4194633	4.20E-04	1.41E-03	1.10E-03	6.54E-05	2.28E-04	1.74E-04	2.87E-06	1.74E-05	1.02E-05
2074	577262	4194634	3.84E-04	1.29E-03	1.01E-03	5.99E-05	2.08E-04	1.59E-04	2.63E-06	1.59E-05	9.34E-06
2075	577253	4194635	3.58E-04	1.21E-03	9.41E-04	5.58E-05	1.94E-04	1.49E-04	2.45E-06	1.48E-05	8.72E-06
2076	577241.1	4194636	3.28E-04	1.10E-03	8.62E-04	5.11E-05	1.78E-04	1.36E-04	2.24E-06	1.36E-05	7.98E-06
2077	577440.5	4194622	3.47E-04	1.17E-03	9.11E-04	5.40E-05	1.88E-04	1.44E-04	2.37E-06	1.44E-05	8.44E-06
2078	577430.2	4194626	3.69E-04	1.24E-03	9.68E-04	5.74E-05	2.00E-04	1.53E-04	2.52E-06	1.53E-05	8.97E-06
2079	577421.3	4194627	3.96E-04	1.33E-03	1.04E-03	6.17E-05	2.15E-04	1.64E-04	2.71E-06	1.64E-05	9.63E-06
2080	577409.3	4194629	4.33E-04	1.46E-03	1.14E-03	6.75E-05	2.35E-04	1.80E-04	2.96E-06	1.79E-05	1.05E-05
2081	577400.3	4194629	4.60E-04	1.55E-03	1.21E-03	7.17E-05	2.50E-04	1.91E-04	3.15E-06	1.91E-05	1.12E-05
2082	577388.4	4194631	4.93E-04	1.66E-03	1.30E-03	7.69E-05	2.68E-04	2.05E-04	3.37E-06	2.04E-05	1.20E-05
2083	577379.4	4194632	5.16E-04	1.74E-03	1.35E-03	8.04E-05	2.80E-04	2.14E-04	3.53E-06	2.14E-05	1.26E-05
2084	577367.4	4194633	5.37E-04	1.81E-03	1.41E-03	8.37E-05	2.92E-04	2.23E-04	3.67E-06	2.23E-05	1.31E-05
2085	577358.5	4194634	5.46E-04	1.84E-03	1.43E-03	8.50E-05	2.96E-04	2.26E-04	3.73E-06	2.26E-05	1.33E-05
2086	577346.5	4194635	5.50E-04	1.85E-03	1.44E-03	8.57E-05	2.98E-04	2.28E-04	3.76E-06	2.28E-05	1.34E-05
2087	577337.5	4194636	5.43E-04	1.83E-03	1.43E-03	8.47E-05	2.95E-04	2.25E-04	3.72E-06	2.25E-05	1.32E-05
2088	577325.6	4194637	5.25E-04	1.77E-03	1.38E-03	8.18E-05	2.85E-04	2.18E-04	3.59E-06	2.17E-05	1.28E-05
2089	577316.6	4194638	5.06E-04	1.70E-03	1.33E-03	7.88E-05	2.75E-04	2.10E-04	3.46E-06	2.10E-05	1.23E-05
2090	577304.6	4194639	4.79E-04	1.61E-03	1.26E-03	7.46E-05	2.60E-04	1.99E-04	3.28E-06	1.98E-05	1.17E-05
2091	577295.6	4194640	4.56E-04	1.54E-03	1.20E-03	7.11E-05	2.48E-04	1.89E-04	3.12E-06	1.89E-05	1.11E-05
2092	577283.7	4194641	4.24E-04	1.43E-03	1.11E-03	6.61E-05	2.30E-04	1.76E-04	2.90E-06	1.76E-05	1.03E-05
2093	577274.7	4194642	3.99E-04	1.34E-03	1.05E-03	6.22E-05	2.17E-04	1.66E-04	2.73E-06	1.65E-05	9.72E-06
2094	577265.7	4194643	3.74E-04	1.26E-03	9.83E-04	5.83E-05	2.03E-04	1.55E-04	2.56E-06	1.55E-05	9.11E-06
2095	577253.8	4194644	3.42E-04	1.15E-03	8.97E-04	5.32E-05	1.85E-04	1.42E-04	2.34E-06	1.41E-05	8.31E-06
2096	577244.8	4194645	3.20E-04	1.08E-03	8.40E-04	4.98E-05	1.74E-04	1.33E-04	2.19E-06	1.33E-05	7.78E-06

			136	577296.21	4194240.41
	Max Yr	**2**	T2	T2L3	T4
	Row	**19**	3.78E-01	6.09E-02	4.65E-03
		Col	**3**	**4**	**5**
		Adjustment	**100%**	**16%**	**1%**
	UTM X	UTM Y	Year 2	Year 2	Year 2
1	577330.1	4194345	1.27E-01	2.05E-02	1.57E-03
2	577339.3	4194349	9.46E-02	1.53E-02	1.16E-03
3	577348.5	4194353	7.24E-02	1.17E-02	8.91E-04
4	577334.4	4194332	1.55E-01	2.49E-02	1.90E-03
5	577343.9	4194335	1.13E-01	1.83E-02	1.40E-03
6	577353.5	4194338	8.53E-02	1.38E-02	1.05E-03
7	577363	4194341	6.65E-02	1.07E-02	8.19E-04
8	577372.5	4194345	5.34E-02	8.61E-03	6.58E-04
9	577380	4194354	4.22E-02	6.81E-03	5.20E-04
10	577389.5	4194357	3.64E-02	5.88E-03	4.49E-04
11	577346.4	4194326	1.29E-01	2.09E-02	1.59E-03
12	577356	4194329	9.67E-02	1.56E-02	1.19E-03
13	577365.7	4194332	7.52E-02	1.21E-02	9.26E-04
14	577375.4	4194334	6.03E-02	9.72E-03	7.42E-04
15	577383.1	4194344	4.66E-02	7.51E-03	5.74E-04
16	577392.7	4194347	3.99E-02	6.43E-03	4.91E-04
17	577402.4	4194349	3.46E-02	5.58E-03	4.26E-04
18	577412.1	4194352	3.11E-02	5.01E-03	3.82E-04
19	577421.7	4194354	2.80E-02	4.52E-03	3.45E-04
20	577431.4	4194357	2.53E-02	4.08E-03	3.12E-04
21	577441	4194360	2.29E-02	3.70E-03	2.82E-04
22	577450.7	4194362	2.08E-02	3.35E-03	2.56E-04
23	577462.2	4194358	1.95E-02	3.15E-03	2.41E-04
24	577471.9	4194360	1.77E-02	2.85E-03	2.18E-04
25	577481.6	4194363	1.60E-02	2.58E-03	1.97E-04
26	577491.2	4194366	1.46E-02	2.35E-03	1.80E-04
27	577500.9	4194368	1.33E-02	2.15E-03	1.64E-04
28	577510.5	4194371	1.22E-02	1.97E-03	1.51E-04
29	577520.2	4194373	1.12E-02	1.81E-03	1.38E-04
30	577337.1	4194322	1.81E-01	2.92E-02	2.23E-03
31	577348.4	4194317	1.46E-01	2.36E-02	1.80E-03
32	577358.2	4194319	1.10E-01	1.77E-02	1.35E-03
33	577368	4194321	8.48E-02	1.37E-02	1.04E-03
34	577377.8	4194323	6.77E-02	1.09E-02	8.33E-04
35	577386.1	4194332	5.22E-02	8.42E-03	6.43E-04
36	577395.9	4194335	4.41E-02	7.11E-03	5.43E-04
37	577405.6	4194337	3.81E-02	6.14E-03	4.69E-04
38	577415.4	4194339	3.41E-02	5.49E-03	4.19E-04
39	577425.2	4194341	3.05E-02	4.92E-03	3.76E-04
40	577434.1	4194346	2.69E-02	4.34E-03	3.31E-04
41	577436.5	4194336	2.84E-02	4.58E-03	3.50E-04
42	577443.9	4194349	2.43E-02	3.91E-03	2.99E-04
43	577446.3	4194338	2.56E-02	4.12E-03	3.15E-04
44	577453.6	4194351	2.20E-02	3.54E-03	2.70E-04
45	577456	4194340	2.31E-02	3.72E-03	2.84E-04

46	577464.4	4194349	2.03E-02	3.27E-03	2.49E-04
47	577474.1	4194351	1.83E-02	2.95E-03	2.25E-04
48	577483.9	4194353	1.66E-02	2.67E-03	2.04E-04
49	577493.7	4194355	1.51E-02	2.43E-03	1.86E-04
50	577503.5	4194357	1.38E-02	2.23E-03	1.70E-04
51	577513.3	4194359	1.27E-02	2.04E-03	1.56E-04
52	577523.1	4194361	1.16E-02	1.88E-03	1.43E-04
53	577531.3	4194370	1.05E-02	1.69E-03	1.29E-04
54	577534.3	4194356	1.09E-02	1.76E-03	1.34E-04
55	577541.1	4194372	9.67E-03	1.56E-03	1.19E-04
56	577544.1	4194358	1.00E-02	1.61E-03	1.23E-04
57	577550.8	4194374	8.93E-03	1.44E-03	1.10E-04
58	577553.9	4194360	9.23E-03	1.49E-03	1.14E-04
59	577561.1	4194374	8.30E-03	1.34E-03	1.02E-04
60	577563.7	4194362	8.50E-03	1.37E-03	1.05E-04
61	577570.8	4194377	7.68E-03	1.24E-03	9.45E-05
62	577573.5	4194365	7.84E-03	1.26E-03	9.65E-05
63	577580.6	4194379	7.13E-03	1.15E-03	8.78E-05
64	577583.3	4194367	7.26E-03	1.17E-03	8.94E-05
65	577590.3	4194381	6.70E-03	1.08E-03	8.25E-05
66	577593.1	4194369	6.85E-03	1.10E-03	8.43E-05
67	577600	4194383	6.34E-03	1.02E-03	7.80E-05
68	577602.8	4194371	6.48E-03	1.04E-03	7.97E-05
69	577609.8	4194385	5.99E-03	9.66E-04	7.38E-05
70	577612.6	4194373	6.13E-03	9.89E-04	7.55E-05
71	577619.5	4194388	5.68E-03	9.16E-04	6.99E-05
72	577622.4	4194375	5.82E-03	9.39E-04	7.17E-05
73	577340.3	4194307	2.18E-01	3.51E-02	2.68E-03
74	577343.8	4194291	2.30E-01	3.71E-02	2.83E-03
75	577351.9	4194301	1.65E-01	2.66E-02	2.03E-03
76	577355.3	4194284	1.66E-01	2.67E-02	2.04E-03
77	577361.6	4194303	1.24E-01	2.00E-02	1.53E-03
78	577365.1	4194287	1.28E-01	2.07E-02	1.58E-03
79	577371.4	4194305	9.66E-02	1.56E-02	1.19E-03
80	577374.9	4194289	1.02E-01	1.64E-02	1.25E-03
81	577381.2	4194307	7.71E-02	1.24E-02	9.49E-04
82	577384.7	4194291	8.24E-02	1.33E-02	1.01E-03
83	577389.2	4194317	5.89E-02	9.49E-03	7.24E-04
84	577392.7	4194301	6.57E-02	1.06E-02	8.08E-04
85	577399	4194319	4.88E-02	7.87E-03	6.00E-04
86	577402.5	4194303	5.45E-02	8.79E-03	6.71E-04
87	577408.8	4194322	4.20E-02	6.78E-03	5.17E-04
88	577412.3	4194305	4.66E-02	7.51E-03	5.73E-04
89	577418.6	4194324	3.71E-02	5.99E-03	4.57E-04
90	577422.1	4194307	4.04E-02	6.51E-03	4.97E-04
91	577428.4	4194326	3.30E-02	5.31E-03	4.06E-04
92	577431.9	4194309	3.53E-02	5.70E-03	4.35E-04
93	577439.9	4194320	3.03E-02	4.89E-03	3.74E-04
94	577443.4	4194303	3.20E-02	5.16E-03	3.94E-04
95	577449.7	4194322	2.72E-02	4.39E-03	3.35E-04
96	577453.2	4194305	2.83E-02	4.56E-03	3.48E-04
97	577459.5	4194324	2.44E-02	3.93E-03	3.00E-04

98	577463	4194307	2.51E-02	4.05E-03	3.09E-04
99	577467.5	4194334	2.13E-02	3.44E-03	2.62E-04
100	577471	4194318	2.22E-02	3.58E-03	2.73E-04
101	577477.3	4194336	1.92E-02	3.10E-03	2.36E-04
102	577480.8	4194320	1.99E-02	3.21E-03	2.45E-04
103	577487.1	4194338	1.74E-02	2.80E-03	2.14E-04
104	577490.6	4194322	1.80E-02	2.90E-03	2.22E-04
105	577496.9	4194340	1.58E-02	2.55E-03	1.94E-04
106	577500.3	4194324	1.64E-02	2.64E-03	2.01E-04
107	577506.6	4194342	1.44E-02	2.32E-03	1.77E-04
108	577510.1	4194326	1.49E-02	2.41E-03	1.84E-04
109	577516.4	4194344	1.32E-02	2.13E-03	1.62E-04
110	577519.9	4194328	1.37E-02	2.20E-03	1.68E-04
111	577526.2	4194346	1.21E-02	1.95E-03	1.49E-04
112	577529.7	4194330	1.25E-02	2.02E-03	1.54E-04
113	577537.7	4194340	1.13E-02	1.82E-03	1.39E-04
114	577541.2	4194324	1.16E-02	1.86E-03	1.42E-04
115	577547.5	4194342	1.03E-02	1.67E-03	1.27E-04
116	577551	4194326	1.06E-02	1.70E-03	1.30E-04
117	577557.3	4194344	9.49E-03	1.53E-03	1.17E-04
118	577560.8	4194328	9.67E-03	1.56E-03	1.19E-04
119	577567.1	4194347	8.70E-03	1.40E-03	1.07E-04
120	577570.6	4194330	8.86E-03	1.43E-03	1.09E-04
121	577576.9	4194349	8.00E-03	1.29E-03	9.85E-05
122	577580.3	4194332	8.13E-03	1.31E-03	1.00E-04
123	577586.6	4194351	7.43E-03	1.20E-03	9.15E-05
124	577590.1	4194334	7.58E-03	1.22E-03	9.33E-05
125	577596.4	4194353	7.01E-03	1.13E-03	8.63E-05
126	577599.9	4194336	7.14E-03	1.15E-03	8.79E-05
127	577606.2	4194355	6.63E-03	1.07E-03	8.16E-05
128	577609.7	4194338	6.74E-03	1.09E-03	8.30E-05
129	577616	4194357	6.28E-03	1.01E-03	7.73E-05
130	577619.5	4194340	6.41E-03	1.03E-03	7.89E-05
131	577625.8	4194359	5.97E-03	9.63E-04	7.35E-05
132	577629.3	4194343	6.11E-03	9.86E-04	7.52E-05
133	577342.9	4194268	2.18E-01	3.52E-02	2.68E-03
134	577314.3	4194245	3.12E-01	5.03E-02	3.84E-03
135	577305.3	4194243	3.51E-01	5.66E-02	4.32E-03
136	577296.2	4194240	3.78E-01	6.09E-02	4.65E-03
137	577344	4194250	1.70E-01	2.74E-02	2.09E-03
138	577351.4	4194262	1.64E-01	2.64E-02	2.02E-03
139	577316.7	4194235	2.31E-01	3.73E-02	2.85E-03
140	577307.6	4194233	2.53E-01	4.08E-02	3.11E-03
141	577298.6	4194231	2.68E-01	4.32E-02	3.29E-03
142	577346.3	4194241	1.42E-01	2.29E-02	1.75E-03
143	577359.9	4194257	1.27E-01	2.05E-02	1.57E-03
144	577362.5	4194272	1.34E-01	2.16E-02	1.65E-03
145	577319	4194225	1.79E-01	2.88E-02	2.20E-03
146	577310	4194223	1.92E-01	3.09E-02	2.36E-03
147	577301	4194221	2.01E-01	3.25E-02	2.48E-03
148	577352.4	4194234	1.16E-01	1.87E-02	1.43E-03
149	577359.7	4194239	1.08E-01	1.73E-02	1.32E-03

150	577368.6	4194253	1.03E-01	1.66E-02	1.27E-03
151	577370.2	4194262	1.07E-01	1.72E-02	1.31E-03
152	577330.4	4194218	1.33E-01	2.15E-02	1.64E-03
153	577321.4	4194216	1.45E-01	2.33E-02	1.78E-03
154	577312.4	4194213	1.53E-01	2.47E-02	1.88E-03
155	577303.3	4194211	1.59E-01	2.56E-02	1.95E-03
156	577294.3	4194209	1.59E-01	2.57E-02	1.96E-03
157	577285.3	4194207	1.55E-01	2.51E-02	1.91E-03
158	577354.1	4194224	9.98E-02	1.61E-02	1.23E-03
159	577368.4	4194234	8.80E-02	1.42E-02	1.08E-03
160	577377	4194248	8.48E-02	1.37E-02	1.04E-03
161	577380.1	4194265	8.91E-02	1.44E-02	1.10E-03
162	577323.8	4194206	1.19E-01	1.92E-02	1.46E-03
163	577314.7	4194204	1.25E-01	2.02E-02	1.54E-03
164	577305.7	4194202	1.28E-01	2.06E-02	1.58E-03
165	577296.7	4194199	1.27E-01	2.06E-02	1.57E-03
166	577287.6	4194197	1.24E-01	2.00E-02	1.52E-03
167	577356.1	4194213	8.63E-02	1.39E-02	1.06E-03
168	577370	4194224	7.79E-02	1.26E-02	9.59E-04
169	577385.4	4194242	7.11E-02	1.15E-02	8.74E-04
170	577388.5	4194259	7.43E-02	1.20E-02	9.15E-04
171	577391.5	4194276	7.41E-02	1.20E-02	9.12E-04
172	577326.1	4194196	9.92E-02	1.60E-02	1.22E-03
173	577317.1	4194194	1.03E-01	1.67E-02	1.27E-03
174	577308.1	4194192	1.05E-01	1.70E-02	1.29E-03
175	577299	4194190	1.04E-01	1.68E-02	1.28E-03
176	577290	4194187	1.01E-01	1.63E-02	1.25E-03
177	577358.1	4194204	7.50E-02	1.21E-02	9.23E-04
178	577371.8	4194213	6.89E-02	1.11E-02	8.48E-04
179	577385.5	4194223	6.18E-02	9.97E-03	7.61E-04
180	577393.9	4194237	6.02E-02	9.71E-03	7.41E-04
181	577396.8	4194253	6.30E-02	1.02E-02	7.76E-04
182	577399.8	4194270	6.35E-02	1.02E-02	7.82E-04
183	577402.8	4194287	6.03E-02	9.72E-03	7.42E-04
184	577360.2	4194194	6.57E-02	1.06E-02	8.08E-04
185	577373.8	4194203	6.11E-02	9.86E-03	7.53E-04
186	577387.3	4194213	5.56E-02	8.97E-03	6.84E-04
187	577402.3	4194231	5.16E-02	8.33E-03	6.36E-04
188	577405.3	4194248	5.41E-02	8.73E-03	6.66E-04
189	577408.2	4194264	5.48E-02	8.84E-03	6.75E-04
190	577411.1	4194280	5.31E-02	8.56E-03	6.53E-04
191	577387	4194202	5.08E-02	8.19E-03	6.26E-04
192	577394.4	4194207	4.83E-02	7.79E-03	5.95E-04
193	577401.9	4194212	4.58E-02	7.39E-03	5.64E-04
194	577410.9	4194227	4.49E-02	7.24E-03	5.53E-04
195	577412.6	4194236	4.62E-02	7.45E-03	5.69E-04
196	577414.2	4194245	4.72E-02	7.60E-03	5.80E-04
197	577415.8	4194254	4.76E-02	7.68E-03	5.86E-04
198	577417.4	4194263	4.77E-02	7.68E-03	5.87E-04
199	577419	4194272	4.71E-02	7.59E-03	5.79E-04
200	577420.6	4194281	4.59E-02	7.40E-03	5.65E-04
201	577422.2	4194290	4.42E-02	7.13E-03	5.44E-04

202	577351.9	4194165	5.24E-02	8.44E-03	6.44E-04
203	577403.2	4194202	4.19E-02	6.76E-03	5.16E-04
204	577410.5	4194207	4.00E-02	6.45E-03	4.92E-04
205	577419.4	4194221	3.93E-02	6.33E-03	4.84E-04
206	577422.5	4194239	4.12E-02	6.65E-03	5.07E-04
207	577425.7	4194257	4.19E-02	6.75E-03	5.15E-04
208	577428.9	4194274	4.09E-02	6.59E-03	5.03E-04
209	577432	4194292	3.83E-02	6.18E-03	4.72E-04
210	577344.6	4194160	5.21E-02	8.40E-03	6.41E-04
211	577335.6	4194157	5.36E-02	8.64E-03	6.60E-04
212	577326.6	4194155	5.43E-02	8.76E-03	6.69E-04
213	577317.5	4194153	5.43E-02	8.76E-03	6.69E-04
214	577308.5	4194151	5.37E-02	8.65E-03	6.60E-04
215	577299.5	4194149	5.24E-02	8.44E-03	6.45E-04
216	577354.2	4194155	4.62E-02	7.44E-03	5.68E-04
217	577368.6	4194165	4.54E-02	7.32E-03	5.59E-04
218	577427.8	4194216	3.46E-02	5.58E-03	4.26E-04
219	577430.9	4194233	3.63E-02	5.85E-03	4.47E-04
220	577434	4194251	3.70E-02	5.97E-03	4.56E-04
221	577437.2	4194268	3.65E-02	5.89E-03	4.50E-04
222	577440.3	4194286	3.47E-02	5.60E-03	4.28E-04
223	577338	4194148	4.69E-02	7.56E-03	5.77E-04
224	577328.9	4194145	4.74E-02	7.64E-03	5.83E-04
225	577319.9	4194143	4.72E-02	7.62E-03	5.81E-04
226	577310.9	4194141	4.66E-02	7.51E-03	5.74E-04
227	577301.8	4194139	4.56E-02	7.35E-03	5.61E-04
228	577356.5	4194145	4.09E-02	6.60E-03	5.04E-04
229	577370.7	4194156	4.06E-02	6.54E-03	4.99E-04
230	577384.9	4194166	3.89E-02	6.27E-03	4.79E-04
231	577436.3	4194210	3.07E-02	4.95E-03	3.78E-04
232	577439.3	4194228	3.21E-02	5.18E-03	3.96E-04
233	577442.4	4194245	3.29E-02	5.30E-03	4.05E-04
234	577445.5	4194262	3.27E-02	5.28E-03	4.03E-04
235	577448.6	4194279	3.15E-02	5.09E-03	3.88E-04
236	577340.3	4194138	4.13E-02	6.66E-03	5.08E-04
237	577331.3	4194136	4.16E-02	6.71E-03	5.12E-04
238	577322.3	4194134	4.14E-02	6.68E-03	5.10E-04
239	577313.2	4194131	4.08E-02	6.58E-03	5.03E-04
240	577304.2	4194129	4.00E-02	6.44E-03	4.92E-04
241	577358.8	4194135	3.65E-02	5.88E-03	4.49E-04
242	577372.8	4194146	3.64E-02	5.87E-03	4.48E-04
243	577386.9	4194156	3.53E-02	5.69E-03	4.34E-04
244	577401	4194166	3.33E-02	5.37E-03	4.10E-04
245	577415.1	4194176	3.12E-02	5.03E-03	3.84E-04
246	577447.8	4194222	2.86E-02	4.61E-03	3.52E-04
247	577450.8	4194239	2.94E-02	4.73E-03	3.61E-04
248	577453.8	4194256	2.94E-02	4.74E-03	3.62E-04
249	577456.9	4194273	2.87E-02	4.62E-03	3.53E-04
250	577459.9	4194290	2.72E-02	4.38E-03	3.34E-04
251	577342.7	4194128	3.66E-02	5.90E-03	4.50E-04
252	577333.7	4194126	3.68E-02	5.93E-03	4.53E-04
253	577324.6	4194124	3.66E-02	5.90E-03	4.51E-04

254	577315.6	4194122	3.61E-02	5.82E-03	4.44E-04
255	577306.6	4194119	3.53E-02	5.69E-03	4.35E-04
256	577361.6	4194126	3.27E-02	5.28E-03	4.03E-04
257	577369.1	4194132	3.29E-02	5.31E-03	4.05E-04
258	577376.6	4194137	3.28E-02	5.29E-03	4.04E-04
259	577384.1	4194142	3.24E-02	5.23E-03	3.99E-04
260	577391.6	4194148	3.18E-02	5.13E-03	3.92E-04
261	577399.1	4194153	3.10E-02	5.00E-03	3.82E-04
262	577406.6	4194159	3.01E-02	4.85E-03	3.70E-04
263	577414.1	4194164	2.91E-02	4.70E-03	3.58E-04
264	577421.6	4194169	2.81E-02	4.54E-03	3.46E-04
265	577429.1	4194175	2.71E-02	4.37E-03	3.34E-04
266	577436.6	4194180	2.61E-02	4.21E-03	3.21E-04
267	577456.5	4194218	2.57E-02	4.15E-03	3.17E-04
268	577458.1	4194227	2.61E-02	4.21E-03	3.22E-04
269	577459.8	4194237	2.64E-02	4.26E-03	3.25E-04
270	577461.4	4194246	2.65E-02	4.28E-03	3.26E-04
271	577463	4194255	2.64E-02	4.26E-03	3.26E-04
272	577464.6	4194264	2.62E-02	4.22E-03	3.22E-04
273	577466.3	4194273	2.58E-02	4.15E-03	3.17E-04
274	577467.9	4194282	2.51E-02	4.05E-03	3.09E-04
275	577469.5	4194291	2.44E-02	3.93E-03	3.00E-04
276	577471.1	4194300	2.35E-02	3.78E-03	2.89E-04
277	577354.1	4194121	3.22E-02	5.19E-03	3.96E-04
278	577345.1	4194119	3.26E-02	5.26E-03	4.01E-04
279	577336	4194116	3.27E-02	5.28E-03	4.03E-04
280	577327	4194114	3.25E-02	5.25E-03	4.01E-04
281	577318	4194112	3.21E-02	5.18E-03	3.95E-04
282	577308.9	4194110	3.14E-02	5.06E-03	3.86E-04
283	577363.9	4194116	2.95E-02	4.76E-03	3.63E-04
284	577371.3	4194122	2.98E-02	4.80E-03	3.66E-04
285	577378.7	4194127	2.98E-02	4.80E-03	3.66E-04
286	577386.1	4194132	2.95E-02	4.76E-03	3.63E-04
287	577393.5	4194138	2.91E-02	4.69E-03	3.58E-04
288	577400.9	4194143	2.85E-02	4.59E-03	3.51E-04
289	577408.3	4194148	2.77E-02	4.47E-03	3.42E-04
290	577415.7	4194154	2.69E-02	4.34E-03	3.31E-04
291	577423.1	4194159	2.61E-02	4.21E-03	3.21E-04
292	577430.5	4194164	2.52E-02	4.07E-03	3.11E-04
293	577437.9	4194170	2.43E-02	3.93E-03	3.00E-04
294	577445.3	4194175	2.34E-02	3.78E-03	2.89E-04
295	577452.7	4194180	2.25E-02	3.63E-03	2.77E-04
296	577464.9	4194213	2.32E-02	3.73E-03	2.85E-04
297	577466.5	4194222	2.35E-02	3.79E-03	2.90E-04
298	577468.1	4194231	2.38E-02	3.84E-03	2.93E-04
299	577469.7	4194240	2.40E-02	3.86E-03	2.95E-04
300	577471.3	4194249	2.40E-02	3.87E-03	2.95E-04
301	577472.9	4194258	2.39E-02	3.85E-03	2.94E-04
302	577474.5	4194267	2.36E-02	3.80E-03	2.90E-04
303	577476.1	4194275	2.31E-02	3.73E-03	2.85E-04
304	577477.7	4194284	2.26E-02	3.64E-03	2.78E-04
305	577479.3	4194293	2.19E-02	3.53E-03	2.69E-04

306	577480.9	4194302	2.11E-02	3.40E-03	2.59E-04
307	577356.5	4194111	2.90E-02	4.67E-03	3.56E-04
308	577347.4	4194109	2.92E-02	4.71E-03	3.60E-04
309	577338.4	4194107	2.93E-02	4.72E-03	3.60E-04
310	577329.4	4194104	2.91E-02	4.69E-03	3.58E-04
311	577320.3	4194102	2.87E-02	4.62E-03	3.53E-04
312	577311.3	4194100	2.81E-02	4.52E-03	3.45E-04
313	577366.2	4194107	2.67E-02	4.30E-03	3.28E-04
314	577373.5	4194112	2.70E-02	4.35E-03	3.32E-04
315	577380.8	4194117	2.71E-02	4.36E-03	3.33E-04
316	577388.1	4194122	2.69E-02	4.34E-03	3.32E-04
317	577395.4	4194128	2.66E-02	4.29E-03	3.28E-04
318	577402.7	4194133	2.62E-02	4.22E-03	3.22E-04
319	577410.1	4194138	2.56E-02	4.13E-03	3.15E-04
320	577417.4	4194143	2.49E-02	4.02E-03	3.07E-04
321	577424.7	4194149	2.42E-02	3.90E-03	2.98E-04
322	577432	4194154	2.35E-02	3.79E-03	2.89E-04
323	577439.3	4194159	2.27E-02	3.66E-03	2.80E-04
324	577446.6	4194165	2.19E-02	3.54E-03	2.70E-04
325	577454	4194170	2.12E-02	3.41E-03	2.61E-04
326	577461.3	4194175	2.04E-02	3.29E-03	2.51E-04
327	577476.5	4194225	2.16E-02	3.48E-03	2.66E-04
328	577479.7	4194242	2.18E-02	3.52E-03	2.69E-04
329	577482.8	4194260	2.16E-02	3.48E-03	2.66E-04
330	577486	4194278	2.09E-02	3.37E-03	2.57E-04
331	577489.1	4194296	1.97E-02	3.18E-03	2.43E-04
332	577358.8	4194101	2.62E-02	4.22E-03	3.22E-04
333	577349.8	4194099	2.63E-02	4.25E-03	3.24E-04
334	577340.8	4194097	2.63E-02	4.24E-03	3.24E-04
335	577331.7	4194095	2.61E-02	4.21E-03	3.21E-04
336	577322.7	4194092	2.57E-02	4.15E-03	3.17E-04
337	577313.7	4194090	2.52E-02	4.06E-03	3.10E-04
338	577368.4	4194097	2.42E-02	3.90E-03	2.98E-04
339	577382.9	4194107	2.47E-02	3.98E-03	3.04E-04
340	577397.4	4194118	2.44E-02	3.94E-03	3.01E-04
341	577411.9	4194128	2.36E-02	3.81E-03	2.91E-04
342	577426.4	4194139	2.25E-02	3.63E-03	2.77E-04
343	577440.9	4194149	2.12E-02	3.42E-03	2.61E-04
344	577455.3	4194159	1.99E-02	3.21E-03	2.45E-04
345	577469.8	4194170	1.85E-02	2.99E-03	2.28E-04
346	577478.6	4194184	1.83E-02	2.95E-03	2.25E-04
347	577486.4	4194228	1.98E-02	3.19E-03	2.44E-04
348	577489.6	4194245	1.99E-02	3.21E-03	2.45E-04
349	577492.7	4194263	1.96E-02	3.16E-03	2.42E-04
350	577494.3	4194272	1.93E-02	3.12E-03	2.38E-04
351	577497.4	4194289	1.84E-02	2.97E-03	2.27E-04
352	577500.5	4194307	1.72E-02	2.78E-03	2.12E-04
353	577352.2	4194089	2.38E-02	3.84E-03	2.93E-04
354	577343.1	4194087	2.38E-02	3.83E-03	2.93E-04
355	577334.1	4194085	2.36E-02	3.80E-03	2.90E-04
356	577325.1	4194083	2.32E-02	3.74E-03	2.85E-04
357	577316	4194081	2.27E-02	3.66E-03	2.79E-04

358	577370.8	4194087	2.20E-02	3.55E-03	2.71E-04
359	577385.1	4194097	2.26E-02	3.64E-03	2.78E-04
360	577399.4	4194108	2.24E-02	3.62E-03	2.76E-04
361	577413.8	4194118	2.18E-02	3.52E-03	2.69E-04
362	577428.1	4194128	2.09E-02	3.37E-03	2.57E-04
363	577442.5	4194139	1.98E-02	3.20E-03	2.44E-04
364	577456.8	4194149	1.87E-02	3.01E-03	2.30E-04
365	577471.2	4194159	1.75E-02	2.83E-03	2.16E-04
366	577487.1	4194178	1.67E-02	2.70E-03	2.06E-04
367	577496.4	4194231	1.82E-02	2.94E-03	2.24E-04
368	577499.5	4194248	1.82E-02	2.94E-03	2.24E-04
369	577502.6	4194265	1.79E-02	2.88E-03	2.20E-04
370	577505.7	4194283	1.72E-02	2.78E-03	2.12E-04
371	577508.8	4194300	1.63E-02	2.62E-03	2.00E-04
372	577354.5	4194080	2.16E-02	3.49E-03	2.66E-04
373	577345.5	4194077	2.16E-02	3.48E-03	2.65E-04
374	577336.5	4194075	2.13E-02	3.44E-03	2.63E-04
375	577327.4	4194073	2.10E-02	3.39E-03	2.59E-04
376	577318.4	4194071	2.06E-02	3.32E-03	2.53E-04
377	577373.5	4194078	2.01E-02	3.25E-03	2.48E-04
378	577381	4194083	2.05E-02	3.30E-03	2.52E-04
379	577388.5	4194088	2.07E-02	3.34E-03	2.55E-04
380	577396.1	4194094	2.07E-02	3.34E-03	2.55E-04
381	577403.6	4194099	2.06E-02	3.33E-03	2.54E-04
382	577411.1	4194105	2.04E-02	3.29E-03	2.51E-04
383	577418.7	4194110	2.01E-02	3.24E-03	2.47E-04
384	577426.2	4194116	1.97E-02	3.17E-03	2.42E-04
385	577433.7	4194121	1.92E-02	3.10E-03	2.37E-04
386	577441.3	4194126	1.87E-02	3.02E-03	2.31E-04
387	577448.8	4194132	1.82E-02	2.94E-03	2.24E-04
388	577456.3	4194137	1.77E-02	2.85E-03	2.18E-04
389	577463.9	4194143	1.72E-02	2.77E-03	2.11E-04
390	577471.4	4194148	1.66E-02	2.68E-03	2.05E-04
391	577478.9	4194154	1.61E-02	2.60E-03	1.98E-04
392	577486.4	4194159	1.56E-02	2.51E-03	1.92E-04
393	577495.6	4194174	1.54E-02	2.48E-03	1.89E-04
394	577497.2	4194183	1.57E-02	2.53E-03	1.93E-04
395	577498.9	4194192	1.60E-02	2.58E-03	1.97E-04
396	577503.7	4194219	1.66E-02	2.68E-03	2.05E-04
397	577505.4	4194228	1.67E-02	2.70E-03	2.06E-04
398	577507	4194237	1.68E-02	2.71E-03	2.07E-04
399	577508.6	4194247	1.67E-02	2.70E-03	2.06E-04
400	577510.3	4194256	1.66E-02	2.68E-03	2.05E-04
401	577511.9	4194265	1.64E-02	2.65E-03	2.02E-04
402	577513.5	4194274	1.62E-02	2.61E-03	1.99E-04
403	577515.1	4194283	1.58E-02	2.55E-03	1.95E-04
404	577516.8	4194292	1.54E-02	2.48E-03	1.89E-04
405	577518.4	4194301	1.49E-02	2.41E-03	1.84E-04
406	577520	4194311	1.44E-02	2.32E-03	1.77E-04
407	577365.9	4194072	1.97E-02	3.17E-03	2.42E-04
408	577356.9	4194070	1.97E-02	3.18E-03	2.43E-04
409	577347.9	4194068	1.96E-02	3.16E-03	2.41E-04

410	577338.8	4194066	1.94E-02	3.13E-03	2.39E-04
411	577329.8	4194063	1.91E-02	3.08E-03	2.35E-04
412	577320.8	4194061	1.87E-02	3.02E-03	2.31E-04
413	577375.8	4194068	1.85E-02	2.98E-03	2.27E-04
414	577383.2	4194073	1.88E-02	3.03E-03	2.31E-04
415	577390.7	4194079	1.90E-02	3.07E-03	2.34E-04
416	577398.1	4194084	1.91E-02	3.08E-03	2.35E-04
417	577405.6	4194089	1.91E-02	3.08E-03	2.35E-04
418	577413	4194095	1.89E-02	3.05E-03	2.33E-04
419	577420.5	4194100	1.87E-02	3.01E-03	2.30E-04
420	577427.9	4194105	1.83E-02	2.95E-03	2.26E-04
421	577435.4	4194111	1.80E-02	2.89E-03	2.21E-04
422	577442.8	4194116	1.75E-02	2.83E-03	2.16E-04
423	577450.3	4194121	1.71E-02	2.76E-03	2.11E-04
424	577457.7	4194127	1.67E-02	2.68E-03	2.05E-04
425	577465.2	4194132	1.62E-02	2.61E-03	1.99E-04
426	577472.6	4194138	1.57E-02	2.54E-03	1.94E-04
427	577480.1	4194143	1.53E-02	2.46E-03	1.88E-04
428	577487.5	4194148	1.48E-02	2.39E-03	1.82E-04
429	577495	4194154	1.43E-02	2.31E-03	1.76E-04
430	577504.1	4194168	1.41E-02	2.28E-03	1.74E-04
431	577505.7	4194177	1.44E-02	2.33E-03	1.78E-04
432	577507.3	4194186	1.47E-02	2.37E-03	1.81E-04
433	577513.7	4194222	1.54E-02	2.48E-03	1.90E-04
434	577515.3	4194231	1.55E-02	2.49E-03	1.90E-04
435	577516.9	4194240	1.55E-02	2.49E-03	1.90E-04
436	577518.5	4194249	1.54E-02	2.48E-03	1.90E-04
437	577520.2	4194258	1.53E-02	2.46E-03	1.88E-04
438	577521.8	4194268	1.51E-02	2.43E-03	1.85E-04
439	577523.4	4194277	1.48E-02	2.39E-03	1.82E-04
440	577525	4194286	1.45E-02	2.33E-03	1.78E-04
441	577526.6	4194295	1.41E-02	2.27E-03	1.74E-04
442	577528.2	4194304	1.37E-02	2.20E-03	1.68E-04
443	577368.3	4194062	1.80E-02	2.91E-03	2.22E-04
444	577359.3	4194060	1.80E-02	2.91E-03	2.22E-04
445	577350.2	4194058	1.79E-02	2.89E-03	2.20E-04
446	577341.2	4194056	1.77E-02	2.85E-03	2.18E-04
447	577332.2	4194054	1.74E-02	2.81E-03	2.15E-04
448	577323.1	4194051	1.71E-02	2.76E-03	2.11E-04
449	577378.1	4194058	1.70E-02	2.74E-03	2.09E-04
450	577385.4	4194063	1.73E-02	2.79E-03	2.13E-04
451	577392.8	4194069	1.75E-02	2.82E-03	2.16E-04
452	577400.2	4194074	1.76E-02	2.85E-03	2.17E-04
453	577407.6	4194079	1.77E-02	2.85E-03	2.17E-04
454	577415	4194085	1.76E-02	2.83E-03	2.16E-04
455	577422.3	4194090	1.74E-02	2.80E-03	2.14E-04
456	577429.7	4194095	1.71E-02	2.76E-03	2.11E-04
457	577437.1	4194101	1.68E-02	2.71E-03	2.07E-04
458	577444.5	4194106	1.64E-02	2.65E-03	2.02E-04
459	577451.9	4194111	1.61E-02	2.59E-03	1.98E-04
460	577459.2	4194117	1.57E-02	2.53E-03	1.93E-04
461	577466.6	4194122	1.53E-02	2.46E-03	1.88E-04

462	577474	4194127	1.49E-02	2.40E-03	1.83E-04
463	577481.4	4194132	1.45E-02	2.33E-03	1.78E-04
464	577488.8	4194138	1.41E-02	2.27E-03	1.73E-04
465	577496.2	4194143	1.36E-02	2.20E-03	1.68E-04
466	577503.5	4194148	1.32E-02	2.13E-03	1.63E-04
467	577512.5	4194163	1.31E-02	2.10E-03	1.61E-04
468	577515.7	4194181	1.35E-02	2.18E-03	1.67E-04
469	577517.3	4194190	1.37E-02	2.22E-03	1.69E-04
470	577525.3	4194234	1.43E-02	2.31E-03	1.76E-04
471	577526.9	4194243	1.43E-02	2.31E-03	1.76E-04
472	577528.5	4194252	1.42E-02	2.29E-03	1.75E-04
473	577530.1	4194261	1.41E-02	2.27E-03	1.73E-04
474	577531.6	4194270	1.39E-02	2.24E-03	1.71E-04
475	577534.8	4194288	1.33E-02	2.14E-03	1.64E-04
476	577536.4	4194297	1.29E-02	2.08E-03	1.59E-04
477	577538	4194306	1.25E-02	2.01E-03	1.54E-04
478	577539.6	4194315	1.20E-02	1.94E-03	1.48E-04
479	577370.7	4194053	1.66E-02	2.67E-03	2.04E-04
480	577361.6	4194051	1.65E-02	2.66E-03	2.03E-04
481	577352.6	4194048	1.64E-02	2.64E-03	2.02E-04
482	577343.6	4194046	1.62E-02	2.61E-03	1.99E-04
483	577334.5	4194044	1.60E-02	2.57E-03	1.97E-04
484	577325.5	4194042	1.57E-02	2.53E-03	1.93E-04
485	577380.4	4194048	1.56E-02	2.52E-03	1.92E-04
486	577387.7	4194054	1.59E-02	2.57E-03	1.96E-04
487	577395	4194059	1.62E-02	2.61E-03	1.99E-04
488	577402.3	4194064	1.63E-02	2.63E-03	2.01E-04
489	577409.6	4194069	1.64E-02	2.64E-03	2.01E-04
490	577416.9	4194075	1.63E-02	2.63E-03	2.01E-04
491	577424.3	4194080	1.62E-02	2.61E-03	1.99E-04
492	577431.6	4194085	1.60E-02	2.58E-03	1.97E-04
493	577438.9	4194090	1.57E-02	2.54E-03	1.94E-04
494	577446.2	4194096	1.54E-02	2.49E-03	1.90E-04
495	577453.5	4194101	1.51E-02	2.44E-03	1.86E-04
496	577460.8	4194106	1.48E-02	2.38E-03	1.82E-04
497	577468.2	4194112	1.44E-02	2.32E-03	1.77E-04
498	577475.5	4194117	1.41E-02	2.27E-03	1.73E-04
499	577482.8	4194122	1.37E-02	2.21E-03	1.69E-04
500	577490.1	4194127	1.33E-02	2.15E-03	1.64E-04
501	577497.4	4194133	1.30E-02	2.09E-03	1.60E-04
502	577504.7	4194138	1.26E-02	2.03E-03	1.55E-04
503	577512.1	4194143	1.22E-02	1.97E-03	1.50E-04
504	577521	4194157	1.21E-02	1.95E-03	1.49E-04
505	577522.5	4194166	1.23E-02	1.98E-03	1.51E-04
506	577525.7	4194184	1.27E-02	2.05E-03	1.56E-04
507	577535.2	4194237	1.33E-02	2.14E-03	1.64E-04
508	577538.3	4194255	1.31E-02	2.12E-03	1.62E-04
509	577541.5	4194273	1.28E-02	2.06E-03	1.57E-04
510	577544.7	4194290	1.21E-02	1.95E-03	1.49E-04
511	577547.8	4194308	1.14E-02	1.83E-03	1.40E-04
512	577549.4	4194317	1.10E-02	1.77E-03	1.35E-04
513	577373.1	4194043	1.53E-02	2.46E-03	1.88E-04

514	577364	4194041	1.52E-02	2.45E-03	1.87E-04
515	577355	4194039	1.51E-02	2.43E-03	1.86E-04
516	577345.9	4194036	1.49E-02	2.40E-03	1.83E-04
517	577336.9	4194034	1.47E-02	2.37E-03	1.81E-04
518	577327.9	4194032	1.44E-02	2.33E-03	1.77E-04
519	577382.7	4194039	1.44E-02	2.33E-03	1.78E-04
520	577397.2	4194049	1.50E-02	2.41E-03	1.84E-04
521	577411.7	4194059	1.52E-02	2.45E-03	1.87E-04
522	577426.2	4194070	1.51E-02	2.44E-03	1.86E-04
523	577440.7	4194080	1.47E-02	2.38E-03	1.82E-04
524	577455.3	4194091	1.42E-02	2.29E-03	1.75E-04
525	577469.8	4194101	1.36E-02	2.20E-03	1.68E-04
526	577484.3	4194112	1.30E-02	2.10E-03	1.60E-04
527	577498.8	4194122	1.23E-02	1.99E-03	1.52E-04
528	577513.3	4194133	1.17E-02	1.88E-03	1.43E-04
529	577529.4	4194152	1.12E-02	1.81E-03	1.38E-04
530	577531	4194161	1.14E-02	1.84E-03	1.40E-04
531	577534.1	4194178	1.18E-02	1.90E-03	1.45E-04
532	577537.3	4194196	1.21E-02	1.95E-03	1.49E-04
533	577543.5	4194231	1.24E-02	1.99E-03	1.52E-04
534	577546.7	4194249	1.23E-02	1.98E-03	1.51E-04
535	577549.8	4194266	1.18E-02	1.90E-03	1.45E-04
536	577551.4	4194275	1.15E-02	1.86E-03	1.42E-04
537	577554.5	4194293	1.10E-02	1.77E-03	1.35E-04
538	577557.6	4194310	1.04E-02	1.67E-03	1.27E-04
539	577366.4	4194031	1.40E-02	2.26E-03	1.73E-04
540	577357.4	4194029	1.39E-02	2.24E-03	1.71E-04
541	577348.3	4194027	1.37E-02	2.21E-03	1.69E-04
542	577339.3	4194024	1.35E-02	2.18E-03	1.67E-04
543	577330.2	4194022	1.33E-02	2.14E-03	1.64E-04
544	577385	4194029	1.34E-02	2.15E-03	1.64E-04
545	577399.4	4194039	1.39E-02	2.24E-03	1.71E-04
546	577413.8	4194050	1.41E-02	2.28E-03	1.74E-04
547	577428.2	4194060	1.41E-02	2.27E-03	1.74E-04
548	577442.6	4194070	1.38E-02	2.23E-03	1.70E-04
549	577457	4194081	1.34E-02	2.16E-03	1.65E-04
550	577471.5	4194091	1.29E-02	2.08E-03	1.59E-04
551	577485.9	4194101	1.23E-02	1.99E-03	1.52E-04
552	577500.3	4194112	1.17E-02	1.89E-03	1.44E-04
553	577514.7	4194122	1.11E-02	1.79E-03	1.37E-04
554	577529.1	4194133	1.05E-02	1.70E-03	1.29E-04
555	577537.9	4194146	1.04E-02	1.68E-03	1.28E-04
556	577541	4194164	1.08E-02	1.74E-03	1.33E-04
557	577544.1	4194181	1.11E-02	1.79E-03	1.36E-04
558	577547.2	4194199	1.13E-02	1.83E-03	1.40E-04
559	577553.4	4194234	1.15E-02	1.86E-03	1.42E-04
560	577556.5	4194251	1.12E-02	1.81E-03	1.38E-04
561	577559.7	4194269	1.08E-02	1.74E-03	1.32E-04
562	577562.8	4194286	1.03E-02	1.65E-03	1.26E-04
563	577565.9	4194304	9.74E-03	1.57E-03	1.20E-04
564	577368.8	4194021	1.30E-02	2.09E-03	1.59E-04
565	577359.7	4194019	1.28E-02	2.07E-03	1.58E-04

566	577350.7	4194017	1.27E-02	2.05E-03	1.56E-04
567	577341.7	4194015	1.25E-02	2.02E-03	1.54E-04
568	577332.6	4194013	1.23E-02	1.98E-03	1.51E-04
569	577387.6	4194019	1.24E-02	2.00E-03	1.53E-04
570	577395.1	4194025	1.27E-02	2.05E-03	1.56E-04
571	577402.6	4194030	1.29E-02	2.08E-03	1.59E-04
572	577410.1	4194035	1.31E-02	2.11E-03	1.61E-04
573	577417.6	4194041	1.32E-02	2.12E-03	1.62E-04
574	577425	4194046	1.32E-02	2.13E-03	1.63E-04
575	577432.5	4194052	1.32E-02	2.13E-03	1.62E-04
576	577440	4194057	1.31E-02	2.11E-03	1.61E-04
577	577447.5	4194062	1.29E-02	2.09E-03	1.59E-04
578	577455	4194068	1.27E-02	2.06E-03	1.57E-04
579	577462.5	4194073	1.25E-02	2.02E-03	1.54E-04
580	577469.9	4194079	1.23E-02	1.98E-03	1.51E-04
581	577477.4	4194084	1.20E-02	1.94E-03	1.48E-04
582	577484.9	4194089	1.18E-02	1.90E-03	1.45E-04
583	577492.4	4194095	1.15E-02	1.86E-03	1.42E-04
584	577499.9	4194100	1.12E-02	1.81E-03	1.38E-04
585	577507.4	4194105	1.10E-02	1.77E-03	1.35E-04
586	577514.8	4194111	1.07E-02	1.72E-03	1.31E-04
587	577522.3	4194116	1.04E-02	1.67E-03	1.28E-04
588	577529.8	4194122	1.01E-02	1.63E-03	1.24E-04
589	577537.3	4194127	9.82E-03	1.58E-03	1.21E-04
590	577546.4	4194142	9.71E-03	1.57E-03	1.20E-04
591	577548	4194151	9.88E-03	1.59E-03	1.22E-04
592	577549.6	4194160	1.00E-02	1.62E-03	1.24E-04
593	577551.2	4194169	1.02E-02	1.64E-03	1.26E-04
594	577552.9	4194178	1.03E-02	1.67E-03	1.27E-04
595	577554.5	4194187	1.05E-02	1.69E-03	1.29E-04
596	577556.1	4194196	1.06E-02	1.71E-03	1.30E-04
597	577562.6	4194232	1.08E-02	1.73E-03	1.32E-04
598	577564.2	4194241	1.07E-02	1.72E-03	1.32E-04
599	577565.8	4194250	1.04E-02	1.68E-03	1.28E-04
600	577567.4	4194260	1.02E-02	1.64E-03	1.25E-04
601	577569	4194269	9.94E-03	1.60E-03	1.22E-04
602	577570.6	4194278	9.69E-03	1.56E-03	1.19E-04
603	577572.3	4194287	9.42E-03	1.52E-03	1.16E-04
604	577573.9	4194296	9.19E-03	1.48E-03	1.13E-04
605	577575.5	4194305	8.95E-03	1.44E-03	1.10E-04
606	577577.1	4194314	8.68E-03	1.40E-03	1.07E-04
607	577578.7	4194323	8.41E-03	1.36E-03	1.04E-04
608	577380.2	4194014	1.21E-02	1.95E-03	1.49E-04
609	577371.1	4194012	1.20E-02	1.94E-03	1.48E-04
610	577362.1	4194009	1.19E-02	1.92E-03	1.47E-04
611	577353.1	4194007	1.18E-02	1.90E-03	1.45E-04
612	577344	4194005	1.16E-02	1.87E-03	1.43E-04
613	577335	4194003	1.14E-02	1.84E-03	1.40E-04
614	577389.9	4194009	1.15E-02	1.86E-03	1.42E-04
615	577397.4	4194015	1.18E-02	1.90E-03	1.45E-04
616	577404.8	4194020	1.20E-02	1.94E-03	1.48E-04
617	577412.2	4194026	1.22E-02	1.97E-03	1.50E-04

618	577419.6	4194031	1.23E-02	1.98E-03	1.51E-04
619	577427.1	4194036	1.24E-02	1.99E-03	1.52E-04
620	577434.5	4194042	1.23E-02	1.99E-03	1.52E-04
621	577441.9	4194047	1.23E-02	1.98E-03	1.51E-04
622	577449.3	4194052	1.22E-02	1.96E-03	1.50E-04
623	577456.7	4194058	1.20E-02	1.94E-03	1.48E-04
624	577464.2	4194063	1.18E-02	1.91E-03	1.46E-04
625	577471.6	4194068	1.16E-02	1.88E-03	1.43E-04
626	577479	4194074	1.14E-02	1.84E-03	1.41E-04
627	577486.4	4194079	1.12E-02	1.80E-03	1.38E-04
628	577493.9	4194084	1.09E-02	1.77E-03	1.35E-04
629	577501.3	4194090	1.07E-02	1.73E-03	1.32E-04
630	577508.7	4194095	1.05E-02	1.69E-03	1.29E-04
631	577516.1	4194100	1.02E-02	1.64E-03	1.26E-04
632	577523.5	4194106	9.94E-03	1.60E-03	1.22E-04
633	577531	4194111	9.68E-03	1.56E-03	1.19E-04
634	577538.4	4194116	9.43E-03	1.52E-03	1.16E-04
635	577545.8	4194122	9.17E-03	1.48E-03	1.13E-04
636	577554.8	4194136	9.07E-03	1.46E-03	1.12E-04
637	577556.4	4194145	9.22E-03	1.49E-03	1.14E-04
638	577558	4194154	9.37E-03	1.51E-03	1.15E-04
639	577559.7	4194163	9.51E-03	1.53E-03	1.17E-04
640	577561.3	4194172	9.64E-03	1.55E-03	1.19E-04
641	577562.9	4194181	9.76E-03	1.57E-03	1.20E-04
642	577564.5	4194190	9.86E-03	1.59E-03	1.21E-04
643	577566.1	4194199	9.95E-03	1.60E-03	1.22E-04
644	577572.5	4194235	1.00E-02	1.62E-03	1.24E-04
645	577574.1	4194244	9.89E-03	1.59E-03	1.22E-04
646	577575.7	4194253	9.59E-03	1.55E-03	1.18E-04
647	577577.3	4194262	9.35E-03	1.51E-03	1.15E-04
648	577578.9	4194271	9.13E-03	1.47E-03	1.12E-04
649	577580.5	4194280	8.88E-03	1.43E-03	1.09E-04
650	577582.1	4194289	8.63E-03	1.39E-03	1.06E-04
651	577583.7	4194298	8.42E-03	1.36E-03	1.04E-04
652	577586.9	4194316	8.02E-03	1.29E-03	9.87E-05
653	577588.5	4194325	7.80E-03	1.26E-03	9.61E-05
654	577382.5	4194004	1.12E-02	1.81E-03	1.38E-04
655	577373.5	4194002	1.12E-02	1.80E-03	1.37E-04
656	577364.5	4194000	1.11E-02	1.78E-03	1.36E-04
657	577355.4	4193998	1.09E-02	1.76E-03	1.34E-04
658	577346.4	4193995	1.08E-02	1.74E-03	1.33E-04
659	577337.4	4193993	1.06E-02	1.71E-03	1.30E-04
660	577392.3	4194000	1.08E-02	1.73E-03	1.32E-04
661	577399.6	4194005	1.10E-02	1.77E-03	1.35E-04
662	577407	4194010	1.12E-02	1.81E-03	1.38E-04
663	577414.4	4194016	1.14E-02	1.84E-03	1.40E-04
664	577421.7	4194021	1.15E-02	1.85E-03	1.42E-04
665	577429.1	4194026	1.16E-02	1.86E-03	1.42E-04
666	577436.5	4194032	1.16E-02	1.87E-03	1.42E-04
667	577443.8	4194037	1.15E-02	1.86E-03	1.42E-04
668	577451.2	4194042	1.15E-02	1.85E-03	1.41E-04
669	577458.6	4194047	1.13E-02	1.83E-03	1.40E-04

670	577465.9	4194053	1.12E-02	1.81E-03	1.38E-04
671	577473.3	4194058	1.10E-02	1.78E-03	1.36E-04
672	577480.7	4194063	1.08E-02	1.75E-03	1.33E-04
673	577488	4194069	1.06E-02	1.71E-03	1.31E-04
674	577495.4	4194074	1.04E-02	1.68E-03	1.28E-04
675	577502.8	4194079	1.02E-02	1.64E-03	1.25E-04
676	577510.1	4194085	9.97E-03	1.61E-03	1.23E-04
677	577517.5	4194090	9.74E-03	1.57E-03	1.20E-04
678	577524.9	4194095	9.51E-03	1.53E-03	1.17E-04
679	577532.2	4194101	9.28E-03	1.50E-03	1.14E-04
680	577539.6	4194106	9.05E-03	1.46E-03	1.11E-04
681	577547	4194111	8.82E-03	1.42E-03	1.09E-04
682	577554.3	4194116	8.59E-03	1.38E-03	1.06E-04
683	577563.3	4194131	8.49E-03	1.37E-03	1.04E-04
684	577564.9	4194140	8.63E-03	1.39E-03	1.06E-04
685	577568.1	4194158	8.89E-03	1.43E-03	1.09E-04
686	577569.7	4194166	9.01E-03	1.45E-03	1.11E-04
687	577571.3	4194175	9.12E-03	1.47E-03	1.12E-04
688	577574.4	4194193	9.29E-03	1.50E-03	1.14E-04
689	577576	4194202	9.36E-03	1.51E-03	1.15E-04
690	577582.4	4194238	9.38E-03	1.51E-03	1.15E-04
691	577584	4194247	9.13E-03	1.47E-03	1.12E-04
692	577587.2	4194265	8.67E-03	1.40E-03	1.07E-04
693	577588.8	4194274	8.47E-03	1.37E-03	1.04E-04
694	577590.4	4194283	8.24E-03	1.33E-03	1.01E-04
695	577593.5	4194301	7.89E-03	1.27E-03	9.71E-05
696	577595.1	4194309	7.71E-03	1.24E-03	9.49E-05
697	577596.7	4194318	7.52E-03	1.21E-03	9.26E-05
698	577598.3	4194327	7.34E-03	1.18E-03	9.03E-05
699	577384.9	4193994	1.05E-02	1.69E-03	1.29E-04
700	577375.9	4193992	1.04E-02	1.68E-03	1.28E-04
701	577366.8	4193990	1.03E-02	1.66E-03	1.27E-04
702	577357.8	4193988	1.02E-02	1.64E-03	1.25E-04
703	577348.8	4193986	1.00E-02	1.62E-03	1.23E-04
704	577339.7	4193983	9.86E-03	1.59E-03	1.21E-04
705	577394.6	4193990	1.00E-02	1.62E-03	1.24E-04
706	577401.9	4193995	1.03E-02	1.66E-03	1.26E-04
707	577409.2	4194001	1.05E-02	1.69E-03	1.29E-04
708	577416.5	4194006	1.06E-02	1.72E-03	1.31E-04
709	577423.8	4194011	1.08E-02	1.74E-03	1.32E-04
710	577431.2	4194016	1.08E-02	1.75E-03	1.33E-04
711	577438.5	4194022	1.09E-02	1.75E-03	1.34E-04
712	577445.8	4194027	1.09E-02	1.75E-03	1.34E-04
713	577453.1	4194032	1.08E-02	1.74E-03	1.33E-04
714	577460.4	4194037	1.07E-02	1.73E-03	1.32E-04
715	577467.7	4194043	1.06E-02	1.71E-03	1.30E-04
716	577475.1	4194048	1.05E-02	1.69E-03	1.29E-04
717	577482.4	4194053	1.03E-02	1.66E-03	1.27E-04
718	577489.7	4194058	1.01E-02	1.63E-03	1.25E-04
719	577497	4194064	9.93E-03	1.60E-03	1.22E-04
720	577504.3	4194069	9.72E-03	1.57E-03	1.20E-04
721	577511.6	4194074	9.51E-03	1.53E-03	1.17E-04

722	577519	4194080	9.31E-03	1.50E-03	1.15E-04
723	577526.3	4194085	9.10E-03	1.47E-03	1.12E-04
724	577533.6	4194090	8.89E-03	1.43E-03	1.09E-04
725	577540.9	4194095	8.68E-03	1.40E-03	1.07E-04
726	577548.2	4194101	8.47E-03	1.37E-03	1.04E-04
727	577555.5	4194106	8.26E-03	1.33E-03	1.02E-04
728	577562.9	4194111	8.04E-03	1.30E-03	9.89E-05
729	577571.7	4194125	7.95E-03	1.28E-03	9.79E-05
730	577573.3	4194134	8.08E-03	1.30E-03	9.95E-05
731	577576.5	4194152	8.32E-03	1.34E-03	1.02E-04
732	577579.7	4194170	8.53E-03	1.38E-03	1.05E-04
733	577582.8	4194187	8.70E-03	1.40E-03	1.07E-04
734	577586	4194205	8.82E-03	1.42E-03	1.09E-04
735	577592.3	4194241	8.78E-03	1.42E-03	1.08E-04
736	577595.5	4194258	8.31E-03	1.34E-03	1.02E-04
737	577598.6	4194276	7.93E-03	1.28E-03	9.76E-05
738	577601.8	4194294	7.56E-03	1.22E-03	9.30E-05
739	577605	4194312	7.24E-03	1.17E-03	8.91E-05
740	577606.5	4194321	7.07E-03	1.14E-03	8.70E-05
741	577608.1	4194330	6.91E-03	1.11E-03	8.50E-05
742	577387.3	4193985	9.77E-03	1.58E-03	1.20E-04
743	577378.2	4193982	9.70E-03	1.56E-03	1.19E-04
744	577369.2	4193980	9.60E-03	1.55E-03	1.18E-04
745	577360.2	4193978	9.48E-03	1.53E-03	1.17E-04
746	577351.1	4193976	9.34E-03	1.51E-03	1.15E-04
747	577342.1	4193974	9.20E-03	1.48E-03	1.13E-04
748	577396.9	4193980	9.38E-03	1.51E-03	1.16E-04
749	577404.2	4193985	9.61E-03	1.55E-03	1.18E-04
750	577418.7	4193996	9.97E-03	1.61E-03	1.23E-04
751	577426	4194001	1.01E-02	1.63E-03	1.24E-04
752	577440.5	4194012	1.02E-02	1.65E-03	1.26E-04
753	577455.1	4194022	1.02E-02	1.64E-03	1.25E-04
754	577469.6	4194033	1.00E-02	1.62E-03	1.23E-04
755	577476.9	4194038	9.91E-03	1.60E-03	1.22E-04
756	577491.4	4194048	9.63E-03	1.55E-03	1.19E-04
757	577498.7	4194054	9.46E-03	1.53E-03	1.16E-04
758	577513.2	4194064	9.10E-03	1.47E-03	1.12E-04
759	577520.5	4194069	8.91E-03	1.44E-03	1.10E-04
760	577535	4194080	8.52E-03	1.37E-03	1.05E-04
761	577549.6	4194090	8.14E-03	1.31E-03	1.00E-04
762	577564.1	4194101	7.73E-03	1.25E-03	9.52E-05
763	577571.4	4194106	7.53E-03	1.21E-03	9.26E-05
764	577580.2	4194120	7.45E-03	1.20E-03	9.17E-05
765	577583.3	4194138	7.70E-03	1.24E-03	9.48E-05
766	577584.9	4194146	7.80E-03	1.26E-03	9.61E-05
767	577588.1	4194164	8.00E-03	1.29E-03	9.85E-05
768	577591.2	4194182	8.16E-03	1.32E-03	1.00E-04
769	577594.3	4194199	8.28E-03	1.33E-03	1.02E-04
770	577595.9	4194208	8.32E-03	1.34E-03	1.02E-04
771	577602.2	4194243	8.21E-03	1.32E-03	1.01E-04
772	577605.3	4194261	7.80E-03	1.26E-03	9.60E-05
773	577606.9	4194270	7.62E-03	1.23E-03	9.38E-05

774	577610.1	4194288	7.24E-03	1.17E-03	8.91E-05
775	577613.2	4194305	6.96E-03	1.12E-03	8.57E-05
776	577614.8	4194314	6.82E-03	1.10E-03	8.39E-05
777	577616.3	4194323	6.69E-03	1.08E-03	8.24E-05
778	577380.6	4193973	9.07E-03	1.46E-03	1.12E-04
779	577371.6	4193971	8.97E-03	1.45E-03	1.10E-04
780	577362.5	4193968	8.85E-03	1.43E-03	1.09E-04
781	577353.5	4193966	8.73E-03	1.41E-03	1.07E-04
782	577344.5	4193964	8.59E-03	1.39E-03	1.06E-04
783	577399.5	4193971	8.80E-03	1.42E-03	1.08E-04
784	577407	4193976	9.02E-03	1.45E-03	1.11E-04
785	577414.5	4193981	9.21E-03	1.49E-03	1.13E-04
786	577422	4193987	9.37E-03	1.51E-03	1.15E-04
787	577429.5	4193992	9.50E-03	1.53E-03	1.17E-04
788	577437	4193998	9.58E-03	1.54E-03	1.18E-04
789	577444.5	4194003	9.63E-03	1.55E-03	1.18E-04
790	577452	4194009	9.63E-03	1.55E-03	1.19E-04
791	577459.5	4194014	9.61E-03	1.55E-03	1.18E-04
792	577467	4194019	9.54E-03	1.54E-03	1.17E-04
793	577474.5	4194025	9.46E-03	1.52E-03	1.16E-04
794	577482	4194030	9.35E-03	1.51E-03	1.15E-04
795	577489.5	4194036	9.22E-03	1.49E-03	1.14E-04
796	577497	4194041	9.09E-03	1.46E-03	1.12E-04
797	577504.6	4194046	8.93E-03	1.44E-03	1.10E-04
798	577512.1	4194052	8.77E-03	1.41E-03	1.08E-04
799	577519.6	4194057	8.59E-03	1.38E-03	1.06E-04
800	577527.1	4194063	8.41E-03	1.36E-03	1.03E-04
801	577534.6	4194068	8.22E-03	1.33E-03	1.01E-04
802	577542.1	4194073	8.03E-03	1.29E-03	9.88E-05
803	577549.6	4194079	7.84E-03	1.26E-03	9.65E-05
804	577557.1	4194084	7.66E-03	1.23E-03	9.42E-05
805	577564.6	4194090	7.46E-03	1.20E-03	9.19E-05
806	577572.1	4194095	7.27E-03	1.17E-03	8.95E-05
807	577579.6	4194100	7.07E-03	1.14E-03	8.70E-05
808	577588.7	4194115	7.00E-03	1.13E-03	8.62E-05
809	577590.3	4194124	7.12E-03	1.15E-03	8.77E-05
810	577592	4194133	7.24E-03	1.17E-03	8.91E-05
811	577593.6	4194142	7.34E-03	1.18E-03	9.04E-05
812	577595.2	4194151	7.44E-03	1.20E-03	9.16E-05
813	577596.8	4194160	7.53E-03	1.21E-03	9.27E-05
814	577598.4	4194170	7.61E-03	1.23E-03	9.37E-05
815	577600.1	4194179	7.68E-03	1.24E-03	9.46E-05
816	577601.7	4194188	7.75E-03	1.25E-03	9.54E-05
817	577603.3	4194197	7.80E-03	1.26E-03	9.60E-05
818	577604.9	4194206	7.84E-03	1.26E-03	9.64E-05
819	577611.4	4194242	7.77E-03	1.25E-03	9.57E-05
820	577613	4194251	7.58E-03	1.22E-03	9.32E-05
821	577614.7	4194261	7.40E-03	1.19E-03	9.11E-05
822	577616.3	4194270	7.24E-03	1.17E-03	8.91E-05
823	577617.9	4194279	7.08E-03	1.14E-03	8.71E-05
824	577619.5	4194288	6.92E-03	1.12E-03	8.52E-05
825	577621.2	4194297	6.81E-03	1.10E-03	8.38E-05

826	577622.8	4194306	6.68E-03	1.08E-03	8.23E-05
827	577624.4	4194315	6.54E-03	1.06E-03	8.06E-05
828	577626	4194324	6.41E-03	1.03E-03	7.89E-05
829	577627.6	4194333	6.27E-03	1.01E-03	7.72E-05
830	577392	4193965	8.56E-03	1.38E-03	1.05E-04
831	577383	4193963	8.49E-03	1.37E-03	1.04E-04
832	577373.9	4193961	8.39E-03	1.35E-03	1.03E-04
833	577364.9	4193959	8.29E-03	1.34E-03	1.02E-04
834	577355.9	4193956	8.17E-03	1.32E-03	1.01E-04
835	577346.8	4193954	8.05E-03	1.30E-03	9.90E-05
836	577260.5	4194242	3.64E-01	5.88E-02	4.49E-03
837	577262.7	4194232	2.97E-01	4.79E-02	3.66E-03
838	577265	4194223	2.42E-01	3.90E-02	2.98E-03
839	577267.3	4194213	1.84E-01	2.97E-02	2.27E-03
840	577269.6	4194203	1.41E-01	2.28E-02	1.74E-03
841	577271.9	4194193	1.12E-01	1.81E-02	1.38E-03
842	577274.2	4194184	9.27E-02	1.49E-02	1.14E-03
843	577281	4194155	5.66E-02	9.12E-03	6.96E-04
844	577283.3	4194145	4.91E-02	7.91E-03	6.04E-04
845	577285.6	4194135	4.29E-02	6.92E-03	5.28E-04
846	577295.4	4194127	3.88E-02	6.26E-03	4.78E-04
847	577280.3	4194124	3.64E-02	5.87E-03	4.48E-04
848	577297.7	4194117	3.43E-02	5.53E-03	4.22E-04
849	577282.5	4194114	3.23E-02	5.20E-03	3.97E-04
850	577300	4194108	3.05E-02	4.92E-03	3.76E-04
851	577284.8	4194104	2.88E-02	4.64E-03	3.54E-04
852	577302.2	4194098	2.73E-02	4.40E-03	3.36E-04
853	577287.1	4194094	2.59E-02	4.17E-03	3.18E-04
854	577304.5	4194088	2.45E-02	3.96E-03	3.02E-04
855	577289.4	4194085	2.33E-02	3.76E-03	2.87E-04
856	577306.8	4194078	2.21E-02	3.57E-03	2.73E-04
857	577291.7	4194075	2.11E-02	3.41E-03	2.60E-04
858	577309.1	4194069	2.01E-02	3.24E-03	2.47E-04
859	577294	4194065	1.92E-02	3.10E-03	2.37E-04
860	577311.4	4194059	1.83E-02	2.95E-03	2.25E-04
861	577296.2	4194055	1.75E-02	2.83E-03	2.16E-04
862	577313.7	4194049	1.67E-02	2.70E-03	2.06E-04
863	577298.5	4194046	1.61E-02	2.59E-03	1.98E-04
864	577315.9	4194039	1.53E-02	2.47E-03	1.89E-04
865	577300.8	4194036	1.48E-02	2.38E-03	1.82E-04
866	577318.2	4194030	1.41E-02	2.28E-03	1.74E-04
867	577303.1	4194026	1.36E-02	2.19E-03	1.67E-04
868	577320.5	4194020	1.30E-02	2.10E-03	1.60E-04
869	577305.4	4194016	1.26E-02	2.03E-03	1.55E-04
870	577322.8	4194010	1.20E-02	1.94E-03	1.48E-04
871	577307.6	4194007	1.16E-02	1.88E-03	1.43E-04
872	577325.1	4194000	1.12E-02	1.80E-03	1.37E-04
873	577309.9	4193997	1.08E-02	1.74E-03	1.33E-04
874	577327.3	4193991	1.04E-02	1.67E-03	1.28E-04
875	577312.2	4193987	1.00E-02	1.62E-03	1.24E-04
876	577329.6	4193981	9.67E-03	1.56E-03	1.19E-04
877	577314.5	4193977	9.37E-03	1.51E-03	1.15E-04

878	577331.9	4193971	9.02E-03	1.45E-03	1.11E-04
879	577316.8	4193968	8.76E-03	1.41E-03	1.08E-04
880	577334.2	4193962	8.44E-03	1.36E-03	1.04E-04
881	577319	4193958	8.20E-03	1.32E-03	1.01E-04
882	577336.5	4193952	7.90E-03	1.27E-03	9.73E-05
883	577321.3	4193948	7.69E-03	1.24E-03	9.47E-05
884	577232.1	4194246	1.94E-01	3.12E-02	2.38E-03
885	577243.3	4194238	2.29E-01	3.70E-02	2.82E-03
886	577234.1	4194236	1.84E-01	2.96E-02	2.26E-03
887	577245.3	4194229	2.02E-01	3.26E-02	2.49E-03
888	577236.2	4194227	1.68E-01	2.71E-02	2.07E-03
889	577247.4	4194219	1.79E-01	2.88E-02	2.20E-03
890	577238.2	4194217	1.54E-01	2.48E-02	1.89E-03
891	577249.4	4194209	1.51E-01	2.43E-02	1.85E-03
892	577240.3	4194207	1.34E-01	2.15E-02	1.64E-03
893	577260.7	4194201	1.29E-01	2.09E-02	1.59E-03
894	577251.5	4194199	1.17E-01	1.89E-02	1.45E-03
895	577242.3	4194197	1.07E-01	1.72E-02	1.31E-03
896	577262.7	4194191	1.04E-01	1.67E-02	1.28E-03
897	577253.6	4194189	9.57E-02	1.54E-02	1.18E-03
898	577244.4	4194187	8.84E-02	1.43E-02	1.09E-03
899	577264.8	4194182	8.65E-02	1.39E-02	1.06E-03
900	577255.6	4194180	8.05E-02	1.30E-02	9.91E-04
901	577246.4	4194178	7.47E-02	1.20E-02	9.19E-04
902	577270.9	4194152	5.35E-02	8.62E-03	6.58E-04
903	577261.8	4194150	5.06E-02	8.16E-03	6.23E-04
904	577252.6	4194148	4.77E-02	7.69E-03	5.87E-04
905	577273	4194142	4.65E-02	7.49E-03	5.72E-04
906	577263.8	4194140	4.41E-02	7.11E-03	5.43E-04
907	577254.7	4194139	4.17E-02	6.73E-03	5.14E-04
908	577275.1	4194133	4.07E-02	6.56E-03	5.01E-04
909	577265.9	4194131	3.87E-02	6.25E-03	4.77E-04
910	577256.7	4194129	3.68E-02	5.93E-03	4.53E-04
911	577267.9	4194121	3.42E-02	5.52E-03	4.21E-04
912	577258.8	4194119	3.26E-02	5.26E-03	4.02E-04
913	577270	4194111	3.04E-02	4.91E-03	3.75E-04
914	577260.8	4194109	2.91E-02	4.69E-03	3.58E-04
915	577272.1	4194101	2.73E-02	4.40E-03	3.36E-04
916	577262.9	4194099	2.62E-02	4.22E-03	3.22E-04
917	577274.1	4194092	2.46E-02	3.96E-03	3.02E-04
918	577264.9	4194090	2.36E-02	3.81E-03	2.91E-04
919	577276.2	4194082	2.22E-02	3.58E-03	2.73E-04
920	577267	4194080	2.14E-02	3.45E-03	2.64E-04
921	577278.2	4194072	2.02E-02	3.25E-03	2.48E-04
922	577269.1	4194070	1.95E-02	3.14E-03	2.40E-04
923	577280.3	4194062	1.84E-02	2.97E-03	2.26E-04
924	577271.1	4194060	1.78E-02	2.87E-03	2.19E-04
925	577282.3	4194052	1.68E-02	2.71E-03	2.07E-04
926	577273.2	4194050	1.63E-02	2.63E-03	2.01E-04
927	577284.4	4194043	1.54E-02	2.49E-03	1.90E-04
928	577275.2	4194041	1.50E-02	2.42E-03	1.84E-04
929	577286.4	4194033	1.42E-02	2.29E-03	1.75E-04

930	577277.3	4194031	1.38E-02	2.22E-03	1.70E-04
931	577288.5	4194023	1.31E-02	2.11E-03	1.61E-04
932	577279.3	4194021	1.27E-02	2.05E-03	1.57E-04
933	577290.6	4194013	1.21E-02	1.95E-03	1.49E-04
934	577281.4	4194011	1.18E-02	1.90E-03	1.45E-04
935	577292.6	4194003	1.12E-02	1.81E-03	1.38E-04
936	577283.4	4194002	1.10E-02	1.77E-03	1.35E-04
937	577294.7	4193994	1.04E-02	1.68E-03	1.28E-04
938	577285.5	4193992	1.02E-02	1.65E-03	1.26E-04
939	577296.7	4193984	9.72E-03	1.57E-03	1.20E-04
940	577287.6	4193982	9.52E-03	1.53E-03	1.17E-04
941	577298.8	4193974	9.07E-03	1.46E-03	1.12E-04
942	577289.6	4193972	8.89E-03	1.43E-03	1.09E-04
943	577300.8	4193964	8.49E-03	1.37E-03	1.04E-04
944	577291.7	4193962	8.33E-03	1.34E-03	1.02E-04
945	577302.9	4193955	7.95E-03	1.28E-03	9.79E-05
946	577293.7	4193953	7.81E-03	1.26E-03	9.61E-05
947	577304.9	4193945	7.47E-03	1.20E-03	9.19E-05
948	577295.8	4193943	7.34E-03	1.18E-03	9.03E-05
949	577222.1	4194250	1.51E-01	2.44E-02	1.86E-03
950	577213.8	4194245	1.26E-01	2.03E-02	1.55E-03
951	577221	4194239	1.42E-01	2.29E-02	1.75E-03
952	577205.5	4194239	1.07E-01	1.72E-02	1.31E-03
953	577212.5	4194233	1.19E-01	1.92E-02	1.47E-03
954	577220.2	4194228	1.30E-01	2.09E-02	1.60E-03
955	577197.2	4194233	9.12E-02	1.47E-02	1.12E-03
956	577204.3	4194228	1.01E-01	1.63E-02	1.24E-03
957	577211.7	4194222	1.10E-01	1.77E-02	1.35E-03
958	577220.2	4194218	1.21E-01	1.95E-02	1.49E-03
959	577229.2	4194218	1.37E-01	2.20E-02	1.68E-03
960	577188.9	4194228	7.89E-02	1.27E-02	9.71E-04
961	577196	4194222	8.68E-02	1.40E-02	1.07E-03
962	577203.1	4194216	9.38E-02	1.51E-02	1.15E-03
963	577210.1	4194211	9.86E-02	1.59E-02	1.21E-03
964	577219.3	4194209	1.09E-01	1.76E-02	1.34E-03
965	577228.4	4194208	1.20E-01	1.94E-02	1.48E-03
966	577180.6	4194222	6.85E-02	1.10E-02	8.43E-04
967	577187.7	4194216	7.48E-02	1.21E-02	9.20E-04
968	577195.2	4194210	8.01E-02	1.29E-02	9.86E-04
969	577202.3	4194205	8.41E-02	1.36E-02	1.03E-03
970	577210.3	4194200	8.77E-02	1.41E-02	1.08E-03
971	577219.4	4194199	9.45E-02	1.52E-02	1.16E-03
972	577228.5	4194199	1.00E-01	1.62E-02	1.23E-03
973	577172.4	4194217	5.93E-02	9.57E-03	7.30E-04
974	577179.5	4194211	6.44E-02	1.04E-02	7.93E-04
975	577186.5	4194205	6.85E-02	1.11E-02	8.44E-04
976	577193.6	4194199	7.16E-02	1.15E-02	8.82E-04
977	577200.7	4194194	7.19E-02	1.16E-02	8.85E-04
978	577209.5	4194191	7.44E-02	1.20E-02	9.16E-04
979	577218.6	4194190	7.89E-02	1.27E-02	9.71E-04
980	577227.6	4194189	8.27E-02	1.33E-02	1.02E-03
981	577164.1	4194211	5.14E-02	8.29E-03	6.33E-04

982	577171.2	4194205	5.56E-02	8.96E-03	6.84E-04
983	577178.3	4194199	5.91E-02	9.52E-03	7.27E-04
984	577185.4	4194194	6.12E-02	9.86E-03	7.53E-04
985	577192.5	4194188	6.14E-02	9.89E-03	7.55E-04
986	577199.6	4194182	6.03E-02	9.72E-03	7.42E-04
987	577208.6	4194181	6.35E-02	1.02E-02	7.82E-04
988	577217.7	4194180	6.67E-02	1.07E-02	8.21E-04
989	577226.8	4194179	6.95E-02	1.12E-02	8.55E-04
990	577235.9	4194179	7.21E-02	1.16E-02	8.87E-04
991	577155.8	4194205	4.49E-02	7.24E-03	5.53E-04
992	577162.9	4194200	4.82E-02	7.77E-03	5.93E-04
993	577170	4194194	5.10E-02	8.22E-03	6.27E-04
994	577177.1	4194188	5.24E-02	8.46E-03	6.46E-04
995	577184.2	4194182	5.28E-02	8.52E-03	6.50E-04
996	577191.3	4194177	5.22E-02	8.41E-03	6.42E-04
997	577199.6	4194172	5.22E-02	8.41E-03	6.42E-04
998	577208.7	4194171	5.47E-02	8.83E-03	6.74E-04
999	577217.8	4194171	5.71E-02	9.20E-03	7.03E-04
1000	577226.9	4194170	5.93E-02	9.56E-03	7.29E-04
1001	577147.5	4194200	3.94E-02	6.35E-03	4.85E-04
1002	577154.6	4194194	4.21E-02	6.78E-03	5.18E-04
1003	577161.7	4194188	4.41E-02	7.12E-03	5.43E-04
1004	577168.8	4194182	4.54E-02	7.32E-03	5.59E-04
1005	577176	4194177	4.59E-02	7.40E-03	5.65E-04
1006	577183.1	4194171	4.56E-02	7.35E-03	5.61E-04
1007	577190.2	4194165	4.45E-02	7.17E-03	5.48E-04
1008	577139.2	4194194	3.47E-02	5.59E-03	4.27E-04
1009	577146.3	4194188	3.69E-02	5.95E-03	4.54E-04
1010	577153.5	4194183	3.85E-02	6.21E-03	4.74E-04
1011	577160.6	4194177	3.96E-02	6.38E-03	4.87E-04
1012	577167.7	4194171	4.02E-02	6.48E-03	4.94E-04
1013	577174.8	4194165	4.01E-02	6.47E-03	4.94E-04
1014	577130.9	4194189	3.06E-02	4.94E-03	3.77E-04
1015	577138	4194183	3.24E-02	5.23E-03	3.99E-04
1016	577145.1	4194177	3.38E-02	5.45E-03	4.16E-04
1017	577152.2	4194171	3.48E-02	5.61E-03	4.28E-04
1018	577159.2	4194166	3.54E-02	5.70E-03	4.35E-04
1019	577166.3	4194160	3.55E-02	5.73E-03	4.37E-04
1020	577216.5	4194142	3.81E-02	6.14E-03	4.69E-04
1021	577225.5	4194141	3.91E-02	6.31E-03	4.81E-04
1022	577234.6	4194140	4.00E-02	6.45E-03	4.93E-04
1023	577243.7	4194140	4.08E-02	6.59E-03	5.03E-04
1024	577122.6	4194183	2.72E-02	4.39E-03	3.35E-04
1025	577129.7	4194177	2.87E-02	4.62E-03	3.53E-04
1026	577136.8	4194171	2.99E-02	4.82E-03	3.68E-04
1027	577143.9	4194166	3.08E-02	4.97E-03	3.79E-04
1028	577151	4194160	3.14E-02	5.06E-03	3.86E-04
1029	577179.3	4194137	3.03E-02	4.88E-03	3.73E-04
1030	577188.4	4194135	3.09E-02	4.98E-03	3.80E-04
1031	577197.4	4194134	3.19E-02	5.14E-03	3.92E-04
1032	577206.5	4194133	3.28E-02	5.29E-03	4.04E-04
1033	577215.6	4194132	3.37E-02	5.43E-03	4.14E-04

1034	577224.7	4194132	3.45E-02	5.56E-03	4.25E-04
1035	577233.8	4194131	3.52E-02	5.68E-03	4.33E-04
1036	577242.9	4194130	3.59E-02	5.78E-03	4.42E-04
1037	577114.3	4194177	2.42E-02	3.91E-03	2.98E-04
1038	577121.4	4194172	2.55E-02	4.11E-03	3.14E-04
1039	577128.5	4194166	2.66E-02	4.29E-03	3.27E-04
1040	577135.6	4194160	2.74E-02	4.42E-03	3.37E-04
1041	577142.7	4194154	2.80E-02	4.51E-03	3.44E-04
1042	577171.1	4194131	2.74E-02	4.41E-03	3.37E-04
1043	577178.9	4194126	2.69E-02	4.34E-03	3.31E-04
1044	577188	4194125	2.78E-02	4.48E-03	3.42E-04
1045	577197	4194124	2.86E-02	4.60E-03	3.51E-04
1046	577206.1	4194124	2.93E-02	4.72E-03	3.60E-04
1047	577215.2	4194123	3.00E-02	4.83E-03	3.69E-04
1048	577224.3	4194122	3.06E-02	4.94E-03	3.77E-04
1049	577233.4	4194121	3.12E-02	5.03E-03	3.84E-04
1050	577242.5	4194120	3.17E-02	5.12E-03	3.91E-04
1051	577106.1	4194172	2.17E-02	3.50E-03	2.67E-04
1052	577113.1	4194166	2.28E-02	3.68E-03	2.81E-04
1053	577120.2	4194160	2.38E-02	3.83E-03	2.93E-04
1054	577127.3	4194155	2.45E-02	3.95E-03	3.02E-04
1055	577155.7	4194131	2.52E-02	4.06E-03	3.10E-04
1056	577162.8	4194126	2.48E-02	4.00E-03	3.06E-04
1057	577169.9	4194120	2.43E-02	3.92E-03	2.99E-04
1058	577178.5	4194117	2.44E-02	3.93E-03	3.00E-04
1059	577187.6	4194116	2.51E-02	4.04E-03	3.08E-04
1060	577196.7	4194115	2.57E-02	4.14E-03	3.16E-04
1061	577205.8	4194114	2.63E-02	4.23E-03	3.23E-04
1062	577214.9	4194113	2.68E-02	4.32E-03	3.30E-04
1063	577224	4194112	2.73E-02	4.41E-03	3.36E-04
1064	577233.1	4194112	2.78E-02	4.48E-03	3.42E-04
1065	577242.2	4194111	2.83E-02	4.56E-03	3.48E-04
1066	577251.3	4194110	2.87E-02	4.62E-03	3.53E-04
1067	577097.8	4194166	1.95E-02	3.15E-03	2.40E-04
1068	577104.9	4194160	2.05E-02	3.31E-03	2.52E-04
1069	577112	4194155	2.14E-02	3.44E-03	2.63E-04
1070	577119.1	4194149	2.20E-02	3.55E-03	2.71E-04
1071	577147.5	4194126	2.28E-02	3.68E-03	2.81E-04
1072	577154.6	4194120	2.26E-02	3.64E-03	2.78E-04
1073	577161.7	4194114	2.22E-02	3.58E-03	2.73E-04
1074	577168.8	4194109	2.17E-02	3.49E-03	2.67E-04
1075	577178.1	4194107	2.21E-02	3.57E-03	2.72E-04
1076	577187.2	4194106	2.27E-02	3.66E-03	2.79E-04
1077	577196.3	4194105	2.32E-02	3.74E-03	2.85E-04
1078	577205.4	4194105	2.37E-02	3.82E-03	2.91E-04
1079	577214.5	4194104	2.41E-02	3.89E-03	2.97E-04
1080	577223.6	4194103	2.45E-02	3.96E-03	3.02E-04
1081	577232.7	4194102	2.50E-02	4.02E-03	3.07E-04
1082	577241.8	4194101	2.53E-02	4.09E-03	3.12E-04
1083	577250.9	4194100	2.57E-02	4.14E-03	3.16E-04
1084	577089.5	4194161	1.77E-02	2.85E-03	2.17E-04
1085	577096.6	4194155	1.85E-02	2.99E-03	2.28E-04

1086	577103.7	4194149	1.93E-02	3.11E-03	2.37E-04
1087	577132.1	4194126	2.08E-02	3.35E-03	2.56E-04
1088	577139.2	4194120	2.08E-02	3.35E-03	2.56E-04
1089	577146.3	4194114	2.06E-02	3.32E-03	2.53E-04
1090	577153.4	4194109	2.03E-02	3.27E-03	2.50E-04
1091	577160.5	4194103	1.99E-02	3.21E-03	2.45E-04
1092	577168.6	4194098	1.96E-02	3.17E-03	2.42E-04
1093	577177.7	4194097	2.01E-02	3.25E-03	2.48E-04
1094	577186.8	4194097	2.06E-02	3.32E-03	2.53E-04
1095	577195.9	4194096	2.10E-02	3.39E-03	2.59E-04
1096	577205	4194095	2.14E-02	3.45E-03	2.63E-04
1097	577214.1	4194094	2.18E-02	3.51E-03	2.68E-04
1098	577223.2	4194093	2.22E-02	3.57E-03	2.73E-04
1099	577232.3	4194093	2.25E-02	3.63E-03	2.77E-04
1100	577241.5	4194092	2.29E-02	3.69E-03	2.81E-04
1101	577250.6	4194091	2.32E-02	3.74E-03	2.85E-04
1102	577081.2	4194155	1.60E-02	2.59E-03	1.98E-04
1103	577088.3	4194149	1.68E-02	2.71E-03	2.07E-04
1104	577095.4	4194143	1.75E-02	2.82E-03	2.15E-04
1105	577123.9	4194120	1.89E-02	3.05E-03	2.33E-04
1106	577131	4194115	1.90E-02	3.06E-03	2.33E-04
1107	577138.1	4194109	1.88E-02	3.04E-03	2.32E-04
1108	577145.2	4194103	1.86E-02	3.00E-03	2.29E-04
1109	577152.3	4194097	1.83E-02	2.95E-03	2.25E-04
1110	577159.4	4194092	1.79E-02	2.89E-03	2.20E-04
1111	577168.2	4194089	1.80E-02	2.90E-03	2.21E-04
1112	577177.3	4194088	1.84E-02	2.96E-03	2.26E-04
1113	577186.4	4194087	1.88E-02	3.02E-03	2.31E-04
1114	577195.5	4194086	1.91E-02	3.08E-03	2.35E-04
1115	577204.6	4194085	1.94E-02	3.13E-03	2.39E-04
1116	577213.7	4194085	1.98E-02	3.19E-03	2.43E-04
1117	577222.9	4194084	2.01E-02	3.24E-03	2.47E-04
1118	577232	4194083	2.04E-02	3.29E-03	2.51E-04
1119	577241.1	4194082	2.07E-02	3.34E-03	2.55E-04
1120	577250.2	4194081	2.10E-02	3.38E-03	2.58E-04
1121	577072.9	4194149	1.46E-02	2.36E-03	1.80E-04
1122	577080	4194144	1.53E-02	2.47E-03	1.88E-04
1123	577108.5	4194121	1.71E-02	2.76E-03	2.11E-04
1124	577115.6	4194115	1.73E-02	2.79E-03	2.13E-04
1125	577122.7	4194109	1.73E-02	2.80E-03	2.14E-04
1126	577129.8	4194103	1.73E-02	2.79E-03	2.13E-04
1127	577136.9	4194097	1.71E-02	2.76E-03	2.11E-04
1128	577144	4194092	1.69E-02	2.72E-03	2.08E-04
1129	577151.2	4194086	1.65E-02	2.67E-03	2.04E-04
1130	577158.3	4194080	1.62E-02	2.61E-03	1.99E-04
1131	577167.3	4194079	1.65E-02	2.66E-03	2.03E-04
1132	577176.4	4194078	1.68E-02	2.71E-03	2.07E-04
1133	577185.5	4194077	1.71E-02	2.76E-03	2.11E-04
1134	577194.7	4194077	1.74E-02	2.81E-03	2.14E-04
1135	577203.8	4194076	1.77E-02	2.86E-03	2.18E-04
1136	577212.9	4194075	1.80E-02	2.90E-03	2.22E-04
1137	577222	4194074	1.83E-02	2.95E-03	2.25E-04

1138	577231.1	4194073	1.86E-02	2.99E-03	2.28E-04
1139	577240.3	4194073	1.88E-02	3.03E-03	2.32E-04
1140	577249.4	4194072	1.90E-02	3.07E-03	2.34E-04
1141	577258.5	4194071	1.93E-02	3.11E-03	2.37E-04
1142	577064.6	4194144	1.34E-02	2.16E-03	1.65E-04
1143	577093.1	4194121	1.54E-02	2.48E-03	1.89E-04
1144	577100.2	4194115	1.57E-02	2.52E-03	1.93E-04
1145	577107.3	4194109	1.58E-02	2.55E-03	1.95E-04
1146	577114.4	4194103	1.59E-02	2.57E-03	1.96E-04
1147	577121.6	4194098	1.59E-02	2.56E-03	1.96E-04
1148	577128.7	4194092	1.58E-02	2.54E-03	1.94E-04
1149	577135.8	4194086	1.56E-02	2.51E-03	1.92E-04
1150	577142.9	4194080	1.53E-02	2.47E-03	1.89E-04
1151	577150	4194075	1.50E-02	2.42E-03	1.85E-04
1152	577158.3	4194070	1.49E-02	2.40E-03	1.83E-04
1153	577167.4	4194070	1.52E-02	2.45E-03	1.87E-04
1154	577176.5	4194069	1.55E-02	2.49E-03	1.90E-04
1155	577185.6	4194068	1.57E-02	2.54E-03	1.94E-04
1156	577194.8	4194067	1.60E-02	2.57E-03	1.97E-04
1157	577203.9	4194066	1.62E-02	2.61E-03	2.00E-04
1158	577213	4194065	1.65E-02	2.65E-03	2.03E-04
1159	577222.1	4194065	1.67E-02	2.69E-03	2.06E-04
1160	577231.3	4194064	1.69E-02	2.73E-03	2.09E-04
1161	577240.4	4194063	1.72E-02	2.77E-03	2.11E-04
1162	577249.5	4194062	1.74E-02	2.80E-03	2.14E-04
1163	577258.6	4194061	1.76E-02	2.83E-03	2.16E-04
1164	577056.3	4194138	1.23E-02	1.98E-03	1.51E-04
1165	577084.8	4194115	1.41E-02	2.27E-03	1.73E-04
1166	577091.9	4194109	1.44E-02	2.32E-03	1.77E-04
1167	577099	4194104	1.46E-02	2.35E-03	1.79E-04
1168	577106.2	4194098	1.46E-02	2.36E-03	1.80E-04
1169	577113.3	4194092	1.47E-02	2.36E-03	1.80E-04
1170	577120.4	4194086	1.46E-02	2.35E-03	1.79E-04
1171	577127.5	4194080	1.44E-02	2.33E-03	1.78E-04
1172	577134.6	4194075	1.42E-02	2.29E-03	1.75E-04
1173	577141.8	4194069	1.40E-02	2.25E-03	1.72E-04
1174	577148.9	4194063	1.37E-02	2.20E-03	1.68E-04
1175	577157.9	4194061	1.38E-02	2.22E-03	1.69E-04
1176	577167	4194060	1.40E-02	2.26E-03	1.72E-04
1177	577176.1	4194059	1.42E-02	2.30E-03	1.75E-04
1178	577185.2	4194058	1.45E-02	2.33E-03	1.78E-04
1179	577194.4	4194057	1.47E-02	2.37E-03	1.81E-04
1180	577203.5	4194057	1.49E-02	2.40E-03	1.83E-04
1181	577212.6	4194056	1.51E-02	2.43E-03	1.86E-04
1182	577221.8	4194055	1.53E-02	2.47E-03	1.88E-04
1183	577230.9	4194054	1.55E-02	2.50E-03	1.91E-04
1184	577240	4194053	1.57E-02	2.54E-03	1.94E-04
1185	577249.1	4194053	1.59E-02	2.57E-03	1.96E-04
1186	577258.3	4194052	1.61E-02	2.59E-03	1.98E-04
1187	577069.4	4194115	1.26E-02	2.04E-03	1.56E-04
1188	577076.5	4194110	1.30E-02	2.09E-03	1.60E-04
1189	577083.6	4194104	1.32E-02	2.13E-03	1.63E-04

1190	577090.8	4194098	1.34E-02	2.16E-03	1.65E-04
1191	577097.9	4194092	1.35E-02	2.18E-03	1.66E-04
1192	577105	4194086	1.35E-02	2.18E-03	1.67E-04
1193	577112.1	4194081	1.35E-02	2.18E-03	1.66E-04
1194	577119.3	4194075	1.34E-02	2.16E-03	1.65E-04
1195	577126.4	4194069	1.32E-02	2.13E-03	1.63E-04
1196	577133.5	4194063	1.30E-02	2.10E-03	1.60E-04
1197	577140.6	4194058	1.28E-02	2.06E-03	1.57E-04
1198	577147.9	4194052	1.25E-02	2.02E-03	1.54E-04
1199	577157	4194051	1.27E-02	2.05E-03	1.57E-04
1200	577166.1	4194050	1.29E-02	2.09E-03	1.59E-04
1201	577175.3	4194050	1.31E-02	2.12E-03	1.62E-04
1202	577184.4	4194049	1.33E-02	2.15E-03	1.64E-04
1203	577193.5	4194048	1.35E-02	2.18E-03	1.66E-04
1204	577202.7	4194047	1.37E-02	2.21E-03	1.69E-04
1205	577211.8	4194046	1.39E-02	2.24E-03	1.71E-04
1206	577220.9	4194046	1.41E-02	2.27E-03	1.73E-04
1207	577230	4194045	1.43E-02	2.30E-03	1.75E-04
1208	577239.2	4194044	1.44E-02	2.33E-03	1.78E-04
1209	577248.3	4194043	1.46E-02	2.36E-03	1.80E-04
1210	577257.4	4194042	1.48E-02	2.38E-03	1.82E-04
1211	577061	4194110	1.17E-02	1.88E-03	1.43E-04
1212	577068.1	4194104	1.20E-02	1.93E-03	1.47E-04
1213	577075.2	4194098	1.22E-02	1.97E-03	1.50E-04
1214	577082.3	4194092	1.24E-02	1.99E-03	1.52E-04
1215	577089.4	4194087	1.25E-02	2.01E-03	1.54E-04
1216	577096.5	4194081	1.25E-02	2.02E-03	1.54E-04
1217	577103.6	4194075	1.25E-02	2.02E-03	1.54E-04
1218	577110.7	4194069	1.24E-02	2.01E-03	1.53E-04
1219	577117.8	4194064	1.23E-02	1.99E-03	1.52E-04
1220	577124.9	4194058	1.22E-02	1.96E-03	1.50E-04
1221	577132	4194052	1.19E-02	1.93E-03	1.47E-04
1222	577139.1	4194046	1.17E-02	1.89E-03	1.44E-04
1223	577147.5	4194042	1.16E-02	1.87E-03	1.43E-04
1224	577156.6	4194042	1.18E-02	1.90E-03	1.45E-04
1225	577165.7	4194041	1.20E-02	1.93E-03	1.48E-04
1226	577174.8	4194040	1.22E-02	1.96E-03	1.50E-04
1227	577183.9	4194039	1.23E-02	1.99E-03	1.52E-04
1228	577193	4194038	1.25E-02	2.01E-03	1.54E-04
1229	577202.1	4194038	1.26E-02	2.04E-03	1.56E-04
1230	577211.2	4194037	1.28E-02	2.07E-03	1.58E-04
1231	577220.3	4194036	1.30E-02	2.09E-03	1.60E-04
1232	577229.4	4194035	1.31E-02	2.12E-03	1.62E-04
1233	577238.5	4194034	1.33E-02	2.14E-03	1.64E-04
1234	577247.6	4194034	1.34E-02	2.17E-03	1.65E-04
1235	577256.7	4194033	1.36E-02	2.19E-03	1.67E-04
1236	577265.8	4194032	1.37E-02	2.21E-03	1.68E-04
1237	577045.7	4194110	1.05E-02	1.69E-03	1.29E-04
1238	577052.8	4194104	1.08E-02	1.74E-03	1.33E-04
1239	577059.9	4194098	1.11E-02	1.78E-03	1.36E-04
1240	577067	4194093	1.13E-02	1.82E-03	1.39E-04
1241	577074.1	4194087	1.15E-02	1.85E-03	1.41E-04

1242	577081.2	4194081	1.16E-02	1.87E-03	1.42E-04
1243	577088.3	4194075	1.16E-02	1.87E-03	1.43E-04
1244	577095.4	4194070	1.16E-02	1.88E-03	1.43E-04
1245	577102.5	4194064	1.16E-02	1.87E-03	1.43E-04
1246	577109.6	4194058	1.15E-02	1.85E-03	1.41E-04
1247	577116.7	4194052	1.14E-02	1.83E-03	1.40E-04
1248	577123.8	4194047	1.12E-02	1.80E-03	1.38E-04
1249	577130.9	4194041	1.10E-02	1.77E-03	1.35E-04
1250	577138	4194035	1.07E-02	1.73E-03	1.32E-04
1251	577147.1	4194033	1.08E-02	1.74E-03	1.33E-04
1252	577156.2	4194032	1.10E-02	1.77E-03	1.35E-04
1253	577165.3	4194031	1.11E-02	1.79E-03	1.37E-04
1254	577174.4	4194030	1.13E-02	1.82E-03	1.39E-04
1255	577183.5	4194030	1.14E-02	1.84E-03	1.41E-04
1256	577192.6	4194029	1.16E-02	1.86E-03	1.42E-04
1257	577201.7	4194028	1.17E-02	1.89E-03	1.44E-04
1258	577210.8	4194027	1.19E-02	1.91E-03	1.46E-04
1259	577219.9	4194026	1.20E-02	1.94E-03	1.48E-04
1260	577229	4194026	1.21E-02	1.96E-03	1.50E-04
1261	577238.1	4194025	1.23E-02	1.98E-03	1.51E-04
1262	577247.2	4194024	1.24E-02	2.00E-03	1.53E-04
1263	577256.3	4194023	1.25E-02	2.02E-03	1.54E-04
1264	577265.4	4194022	1.26E-02	2.04E-03	1.55E-04
1265	577037.4	4194104	9.70E-03	1.56E-03	1.19E-04
1266	577044.5	4194099	1.00E-02	1.61E-03	1.23E-04
1267	577051.6	4194093	1.02E-02	1.65E-03	1.26E-04
1268	577058.7	4194087	1.05E-02	1.69E-03	1.29E-04
1269	577065.8	4194081	1.06E-02	1.71E-03	1.31E-04
1270	577072.9	4194076	1.07E-02	1.73E-03	1.32E-04
1271	577080	4194070	1.08E-02	1.74E-03	1.33E-04
1272	577087.1	4194064	1.08E-02	1.75E-03	1.33E-04
1273	577094.2	4194058	1.08E-02	1.74E-03	1.33E-04
1274	577101.3	4194052	1.07E-02	1.73E-03	1.32E-04
1275	577108.4	4194047	1.06E-02	1.71E-03	1.31E-04
1276	577115.5	4194041	1.05E-02	1.69E-03	1.29E-04
1277	577122.6	4194035	1.03E-02	1.66E-03	1.27E-04
1278	577129.8	4194029	1.01E-02	1.63E-03	1.24E-04
1279	577137.1	4194024	9.93E-03	1.60E-03	1.22E-04
1280	577146.2	4194023	1.01E-02	1.63E-03	1.24E-04
1281	577155.3	4194023	1.02E-02	1.65E-03	1.26E-04
1282	577164.4	4194022	1.04E-02	1.67E-03	1.27E-04
1283	577173.5	4194021	1.05E-02	1.69E-03	1.29E-04
1284	577182.6	4194020	1.06E-02	1.71E-03	1.31E-04
1285	577191.7	4194019	1.07E-02	1.73E-03	1.32E-04
1286	577200.8	4194019	1.09E-02	1.75E-03	1.34E-04
1287	577210	4194018	1.10E-02	1.77E-03	1.35E-04
1288	577219.1	4194017	1.11E-02	1.79E-03	1.37E-04
1289	577228.2	4194016	1.13E-02	1.81E-03	1.39E-04
1290	577237.3	4194015	1.14E-02	1.83E-03	1.40E-04
1291	577246.4	4194014	1.15E-02	1.85E-03	1.41E-04
1292	577255.5	4194014	1.16E-02	1.87E-03	1.43E-04
1293	577264.6	4194013	1.17E-02	1.88E-03	1.44E-04

1294	577022	4194104	8.71E-03	1.40E-03	1.07E-04
1295	577029.1	4194099	9.01E-03	1.45E-03	1.11E-04
1296	577036.2	4194093	9.28E-03	1.50E-03	1.14E-04
1297	577043.3	4194087	9.52E-03	1.53E-03	1.17E-04
1298	577050.4	4194081	9.72E-03	1.57E-03	1.20E-04
1299	577057.5	4194076	9.88E-03	1.59E-03	1.22E-04
1300	577064.6	4194070	9.99E-03	1.61E-03	1.23E-04
1301	577071.7	4194064	1.01E-02	1.62E-03	1.24E-04
1302	577078.9	4194058	1.01E-02	1.63E-03	1.24E-04
1303	577086	4194053	1.01E-02	1.63E-03	1.24E-04
1304	577093.1	4194047	1.00E-02	1.62E-03	1.24E-04
1305	577100.2	4194041	9.95E-03	1.60E-03	1.22E-04
1306	577107.3	4194035	9.84E-03	1.59E-03	1.21E-04
1307	577114.4	4194030	9.69E-03	1.56E-03	1.19E-04
1308	577121.5	4194024	9.52E-03	1.54E-03	1.17E-04
1309	577128.6	4194018	9.33E-03	1.50E-03	1.15E-04
1310	577137.2	4194015	9.30E-03	1.50E-03	1.14E-04
1311	577146.3	4194014	9.43E-03	1.52E-03	1.16E-04
1312	577155.4	4194013	9.55E-03	1.54E-03	1.17E-04
1313	577164.5	4194012	9.66E-03	1.56E-03	1.19E-04
1314	577173.6	4194011	9.77E-03	1.57E-03	1.20E-04
1315	577182.7	4194011	9.88E-03	1.59E-03	1.22E-04
1316	577191.8	4194010	9.99E-03	1.61E-03	1.23E-04
1317	577200.9	4194009	1.01E-02	1.63E-03	1.24E-04
1318	577210.1	4194008	1.02E-02	1.65E-03	1.26E-04
1319	577219.2	4194007	1.03E-02	1.67E-03	1.27E-04
1320	577228.3	4194006	1.05E-02	1.69E-03	1.29E-04
1321	577237.4	4194006	1.06E-02	1.71E-03	1.30E-04
1322	577246.5	4194005	1.07E-02	1.72E-03	1.31E-04
1323	577255.6	4194004	1.08E-02	1.74E-03	1.33E-04
1324	577264.7	4194003	1.09E-02	1.75E-03	1.34E-04
1325	577273.9	4194002	1.09E-02	1.76E-03	1.34E-04
1326	577006.6	4194105	7.83E-03	1.26E-03	9.63E-05
1327	577013.7	4194099	8.12E-03	1.31E-03	9.99E-05
1328	577020.8	4194093	8.39E-03	1.35E-03	1.03E-04
1329	577027.9	4194087	8.64E-03	1.39E-03	1.06E-04
1330	577035	4194082	8.86E-03	1.43E-03	1.09E-04
1331	577042.1	4194076	9.05E-03	1.46E-03	1.11E-04
1332	577049.3	4194070	9.20E-03	1.48E-03	1.13E-04
1333	577056.4	4194064	9.32E-03	1.50E-03	1.15E-04
1334	577063.5	4194059	9.39E-03	1.51E-03	1.16E-04
1335	577070.6	4194053	9.44E-03	1.52E-03	1.16E-04
1336	577077.7	4194047	9.44E-03	1.52E-03	1.16E-04
1337	577084.8	4194041	9.40E-03	1.52E-03	1.16E-04
1338	577091.9	4194035	9.34E-03	1.51E-03	1.15E-04
1339	577099	4194030	9.24E-03	1.49E-03	1.14E-04
1340	577106.1	4194024	9.12E-03	1.47E-03	1.12E-04
1341	577113.3	4194018	8.98E-03	1.45E-03	1.10E-04
1342	577120.4	4194012	8.81E-03	1.42E-03	1.08E-04
1343	577127.5	4194007	8.63E-03	1.39E-03	1.06E-04
1344	577136.8	4194005	8.71E-03	1.40E-03	1.07E-04
1345	577145.9	4194004	8.82E-03	1.42E-03	1.09E-04

1346	577155	4194003	8.92E-03	1.44E-03	1.10E-04
1347	577164.1	4194003	9.02E-03	1.45E-03	1.11E-04
1348	577173.2	4194002	9.12E-03	1.47E-03	1.12E-04
1349	577182.3	4194001	9.22E-03	1.49E-03	1.13E-04
1350	577191.5	4194000	9.32E-03	1.50E-03	1.15E-04
1351	577200.6	4193999	9.42E-03	1.52E-03	1.16E-04
1352	577209.7	4193999	9.53E-03	1.54E-03	1.17E-04
1353	577218.8	4193998	9.64E-03	1.55E-03	1.19E-04
1354	577227.9	4193997	9.75E-03	1.57E-03	1.20E-04
1355	577237	4193996	9.86E-03	1.59E-03	1.21E-04
1356	577246.2	4193995	9.95E-03	1.60E-03	1.22E-04
1357	577255.3	4193994	1.00E-02	1.62E-03	1.23E-04
1358	577264.4	4193994	1.01E-02	1.63E-03	1.24E-04
1359	577273.5	4193993	1.02E-02	1.64E-03	1.25E-04
1360	576998.3	4194099	7.31E-03	1.18E-03	9.00E-05
1361	577005.4	4194093	7.58E-03	1.22E-03	9.33E-05
1362	577012.5	4194088	7.83E-03	1.26E-03	9.64E-05
1363	577019.6	4194082	8.06E-03	1.30E-03	9.92E-05
1364	577026.8	4194076	8.26E-03	1.33E-03	1.02E-04
1365	577033.9	4194070	8.44E-03	1.36E-03	1.04E-04
1366	577041	4194064	8.58E-03	1.38E-03	1.06E-04
1367	577048.1	4194059	8.70E-03	1.40E-03	1.07E-04
1368	577055.2	4194053	8.78E-03	1.42E-03	1.08E-04
1369	577062.3	4194047	8.83E-03	1.42E-03	1.09E-04
1370	577069.4	4194041	8.84E-03	1.43E-03	1.09E-04
1371	577076.5	4194036	8.82E-03	1.42E-03	1.09E-04
1372	577083.7	4194030	8.77E-03	1.41E-03	1.08E-04
1373	577090.8	4194024	8.70E-03	1.40E-03	1.07E-04
1374	577097.9	4194018	8.60E-03	1.39E-03	1.06E-04
1375	577105	4194013	8.47E-03	1.37E-03	1.04E-04
1376	577112.1	4194007	8.33E-03	1.34E-03	1.03E-04
1377	577119.2	4194001	8.17E-03	1.32E-03	1.01E-04
1378	577127.2	4193996	8.07E-03	1.30E-03	9.93E-05
1379	577136.4	4193995	8.17E-03	1.32E-03	1.01E-04
1380	577145.5	4193995	8.27E-03	1.33E-03	1.02E-04
1381	577154.6	4193994	8.36E-03	1.35E-03	1.03E-04
1382	577163.7	4193993	8.44E-03	1.36E-03	1.04E-04
1383	577172.8	4193992	8.53E-03	1.38E-03	1.05E-04
1384	577182	4193991	8.62E-03	1.39E-03	1.06E-04
1385	577191.1	4193991	8.71E-03	1.40E-03	1.07E-04
1386	577200.2	4193990	8.80E-03	1.42E-03	1.08E-04
1387	577209.3	4193989	8.90E-03	1.44E-03	1.10E-04
1388	577218.4	4193988	9.01E-03	1.45E-03	1.11E-04
1389	577227.6	4193987	9.11E-03	1.47E-03	1.12E-04
1390	577236.7	4193987	9.20E-03	1.48E-03	1.13E-04
1391	577245.8	4193986	9.28E-03	1.50E-03	1.14E-04
1392	577254.9	4193985	9.36E-03	1.51E-03	1.15E-04
1393	577264	4193984	9.42E-03	1.52E-03	1.16E-04
1394	577273.2	4193983	9.47E-03	1.53E-03	1.17E-04
1395	576990	4194093	6.85E-03	1.10E-03	8.43E-05
1396	576997.1	4194088	7.10E-03	1.14E-03	8.74E-05
1397	577004.2	4194082	7.33E-03	1.18E-03	9.02E-05

1398	577011.4	4194076	7.54E-03	1.21E-03	9.27E-05
1399	577018.5	4194070	7.72E-03	1.25E-03	9.51E-05
1400	577025.6	4194065	7.89E-03	1.27E-03	9.71E-05
1401	577032.7	4194059	8.03E-03	1.29E-03	9.88E-05
1402	577039.8	4194053	8.14E-03	1.31E-03	1.00E-04
1403	577046.9	4194047	8.21E-03	1.32E-03	1.01E-04
1404	577054.1	4194042	8.27E-03	1.33E-03	1.02E-04
1405	577061.2	4194036	8.29E-03	1.34E-03	1.02E-04
1406	577068.3	4194030	8.28E-03	1.34E-03	1.02E-04
1407	577075.4	4194024	8.25E-03	1.33E-03	1.02E-04
1408	577082.5	4194018	8.19E-03	1.32E-03	1.01E-04
1409	577089.6	4194013	8.11E-03	1.31E-03	9.98E-05
1410	577096.7	4194007	8.01E-03	1.29E-03	9.85E-05
1411	577103.9	4194001	7.88E-03	1.27E-03	9.70E-05
1412	577111	4193995	7.75E-03	1.25E-03	9.53E-05
1413	577118.1	4193990	7.60E-03	1.22E-03	9.35E-05
1414	577126.9	4193987	7.59E-03	1.22E-03	9.34E-05
1415	577136	4193986	7.68E-03	1.24E-03	9.45E-05
1416	577145.1	4193985	7.76E-03	1.25E-03	9.55E-05
1417	577154.2	4193984	7.84E-03	1.26E-03	9.65E-05
1418	577163.3	4193983	7.91E-03	1.28E-03	9.74E-05
1419	577172.5	4193983	7.99E-03	1.29E-03	9.84E-05
1420	577181.6	4193982	8.07E-03	1.30E-03	9.93E-05
1421	577190.7	4193981	8.15E-03	1.31E-03	1.00E-04
1422	577199.8	4193980	8.24E-03	1.33E-03	1.01E-04
1423	577209	4193979	8.33E-03	1.34E-03	1.03E-04
1424	577218.1	4193979	8.42E-03	1.36E-03	1.04E-04
1425	577227.2	4193978	8.52E-03	1.37E-03	1.05E-04
1426	577236.3	4193977	8.60E-03	1.39E-03	1.06E-04
1427	577245.4	4193976	8.68E-03	1.40E-03	1.07E-04
1428	577254.6	4193975	8.75E-03	1.41E-03	1.08E-04
1429	577263.7	4193974	8.81E-03	1.42E-03	1.08E-04
1430	577272.8	4193974	8.85E-03	1.43E-03	1.09E-04
1431	576981.7	4194088	6.43E-03	1.04E-03	7.91E-05
1432	576988.8	4194082	6.66E-03	1.07E-03	8.20E-05
1433	576996	4194076	6.87E-03	1.11E-03	8.45E-05
1434	577003.1	4194071	7.06E-03	1.14E-03	8.69E-05
1435	577010.2	4194065	7.24E-03	1.17E-03	8.91E-05
1436	577017.3	4194059	7.39E-03	1.19E-03	9.10E-05
1437	577024.4	4194053	7.53E-03	1.21E-03	9.26E-05
1438	577031.5	4194047	7.63E-03	1.23E-03	9.39E-05
1439	577038.7	4194042	7.70E-03	1.24E-03	9.48E-05
1440	577045.8	4194036	7.76E-03	1.25E-03	9.55E-05
1441	577052.9	4194030	7.79E-03	1.26E-03	9.59E-05
1442	577060	4194024	7.79E-03	1.26E-03	9.59E-05
1443	577067.1	4194019	7.77E-03	1.25E-03	9.56E-05
1444	577074.3	4194013	7.72E-03	1.24E-03	9.50E-05
1445	577081.4	4194007	7.65E-03	1.23E-03	9.42E-05
1446	577088.5	4194001	7.57E-03	1.22E-03	9.32E-05
1447	577095.6	4193996	7.47E-03	1.20E-03	9.19E-05
1448	577102.7	4193990	7.35E-03	1.18E-03	9.04E-05
1449	577109.8	4193984	7.21E-03	1.16E-03	8.88E-05

1450	577117	4193978	7.07E-03	1.14E-03	8.70E-05
1451	577126	4193977	7.14E-03	1.15E-03	8.79E-05
1452	577135.1	4193976	7.22E-03	1.16E-03	8.89E-05
1453	577144.2	4193976	7.29E-03	1.18E-03	8.98E-05
1454	577153.4	4193975	7.36E-03	1.19E-03	9.06E-05
1455	577162.5	4193974	7.43E-03	1.20E-03	9.14E-05
1456	577171.6	4193973	7.50E-03	1.21E-03	9.23E-05
1457	577180.7	4193972	7.57E-03	1.22E-03	9.31E-05
1458	577189.9	4193971	7.64E-03	1.23E-03	9.41E-05
1459	577199	4193971	7.72E-03	1.25E-03	9.51E-05
1460	577208.1	4193970	7.81E-03	1.26E-03	9.61E-05
1461	577217.2	4193969	7.89E-03	1.27E-03	9.71E-05
1462	577226.4	4193968	7.98E-03	1.29E-03	9.82E-05
1463	577235.5	4193967	8.06E-03	1.30E-03	9.92E-05
1464	577244.6	4193967	8.13E-03	1.31E-03	1.00E-04
1465	577253.7	4193966	8.19E-03	1.32E-03	1.01E-04
1466	577262.9	4193965	8.24E-03	1.33E-03	1.01E-04
1467	577272	4193964	8.28E-03	1.34E-03	1.02E-04
1468	577281.1	4193963	8.31E-03	1.34E-03	1.02E-04
1469	576973.4	4194082	6.04E-03	9.74E-04	7.43E-05
1470	576980.6	4194076	6.26E-03	1.01E-03	7.70E-05
1471	576987.7	4194071	6.45E-03	1.04E-03	7.94E-05
1472	576994.8	4194065	6.63E-03	1.07E-03	8.16E-05
1473	577001.9	4194059	6.79E-03	1.10E-03	8.36E-05
1474	577009	4194053	6.94E-03	1.12E-03	8.54E-05
1475	577016.2	4194048	7.07E-03	1.14E-03	8.70E-05
1476	577023.3	4194042	7.17E-03	1.16E-03	8.82E-05
1477	577030.4	4194036	7.24E-03	1.17E-03	8.91E-05
1478	577037.5	4194030	7.30E-03	1.18E-03	8.98E-05
1479	577044.6	4194025	7.33E-03	1.18E-03	9.02E-05
1480	577051.8	4194019	7.34E-03	1.18E-03	9.03E-05
1481	577058.9	4194013	7.32E-03	1.18E-03	9.01E-05
1482	577066	4194007	7.29E-03	1.18E-03	8.97E-05
1483	577073.1	4194001	7.23E-03	1.17E-03	8.90E-05
1484	577080.2	4193996	7.16E-03	1.15E-03	8.82E-05
1485	577087.3	4193990	7.08E-03	1.14E-03	8.71E-05
1486	577094.5	4193984	6.97E-03	1.12E-03	8.58E-05
1487	577101.6	4193978	6.86E-03	1.11E-03	8.44E-05
1488	577108.7	4193973	6.73E-03	1.09E-03	8.29E-05
1489	577116.9	4193968	6.67E-03	1.08E-03	8.21E-05
1490	577126.1	4193968	6.74E-03	1.09E-03	8.30E-05
1491	577135.2	4193967	6.81E-03	1.10E-03	8.38E-05
1492	577144.3	4193966	6.87E-03	1.11E-03	8.46E-05
1493	577153.5	4193965	6.93E-03	1.12E-03	8.53E-05
1494	577162.6	4193964	6.99E-03	1.13E-03	8.60E-05
1495	577171.7	4193963	7.05E-03	1.14E-03	8.68E-05
1496	577180.8	4193963	7.12E-03	1.15E-03	8.76E-05
1497	577190	4193962	7.19E-03	1.16E-03	8.85E-05
1498	577199.1	4193961	7.26E-03	1.17E-03	8.94E-05
1499	577208.2	4193960	7.34E-03	1.18E-03	9.03E-05
1500	577217.3	4193959	7.42E-03	1.20E-03	9.13E-05
1501	577226.5	4193959	7.49E-03	1.21E-03	9.22E-05

1502	577235.6	4193958	7.57E-03	1.22E-03	9.31E-05
1503	577244.7	4193957	7.63E-03	1.23E-03	9.39E-05
1504	577253.9	4193956	7.69E-03	1.24E-03	9.47E-05
1505	577263	4193955	7.74E-03	1.25E-03	9.52E-05
1506	577272.1	4193955	7.77E-03	1.25E-03	9.56E-05
1507	577281.2	4193954	7.79E-03	1.26E-03	9.59E-05
1508	576965.1	4194077	5.68E-03	9.16E-04	6.99E-05
1509	576972.3	4194071	5.89E-03	9.49E-04	7.25E-05
1510	576979.4	4194065	6.07E-03	9.78E-04	7.47E-05
1511	576986.5	4194059	6.23E-03	1.00E-03	7.67E-05
1512	576993.6	4194054	6.39E-03	1.03E-03	7.86E-05
1513	577000.8	4194048	6.52E-03	1.05E-03	8.03E-05
1514	577007.9	4194042	6.64E-03	1.07E-03	8.18E-05
1515	577015	4194036	6.74E-03	1.09E-03	8.29E-05
1516	577022.1	4194030	6.81E-03	1.10E-03	8.39E-05
1517	577029.2	4194025	6.87E-03	1.11E-03	8.45E-05
1518	577036.4	4194019	6.90E-03	1.11E-03	8.50E-05
1519	577043.5	4194013	6.92E-03	1.12E-03	8.51E-05
1520	577050.6	4194007	6.91E-03	1.11E-03	8.51E-05
1521	577057.7	4194002	6.89E-03	1.11E-03	8.48E-05
1522	577064.8	4193996	6.84E-03	1.10E-03	8.42E-05
1523	577072	4193990	6.78E-03	1.09E-03	8.35E-05
1524	577079.1	4193984	6.71E-03	1.08E-03	8.26E-05
1525	577086.2	4193979	6.62E-03	1.07E-03	8.15E-05
1526	577093.3	4193973	6.52E-03	1.05E-03	8.03E-05
1527	577100.5	4193967	6.41E-03	1.03E-03	7.89E-05
1528	577107.6	4193961	6.29E-03	1.01E-03	7.74E-05
1529	577116.6	4193959	6.30E-03	1.02E-03	7.76E-05
1530	577125.7	4193958	6.37E-03	1.03E-03	7.83E-05
1531	577134.8	4193957	6.42E-03	1.04E-03	7.91E-05
1532	577143.9	4193956	6.48E-03	1.04E-03	7.97E-05
1533	577153.1	4193956	6.53E-03	1.05E-03	8.04E-05
1534	577162.2	4193955	6.58E-03	1.06E-03	8.10E-05
1535	577171.3	4193954	6.64E-03	1.07E-03	8.17E-05
1536	577180.5	4193953	6.70E-03	1.08E-03	8.25E-05
1537	577189.6	4193952	6.77E-03	1.09E-03	8.33E-05
1538	577198.7	4193951	6.83E-03	1.10E-03	8.41E-05
1539	577207.8	4193951	6.90E-03	1.11E-03	8.50E-05
1540	577217	4193950	6.98E-03	1.12E-03	8.59E-05
1541	577226.1	4193949	7.05E-03	1.14E-03	8.67E-05
1542	577235.2	4193948	7.11E-03	1.15E-03	8.76E-05
1543	577244.4	4193947	7.18E-03	1.16E-03	8.83E-05
1544	577253.5	4193947	7.23E-03	1.17E-03	8.90E-05
1545	577262.6	4193946	7.27E-03	1.17E-03	8.95E-05
1546	577271.8	4193945	7.30E-03	1.18E-03	8.99E-05
1547	577280.9	4193944	7.32E-03	1.18E-03	9.01E-05
1548	577208.3	4194260	1.05E-01	1.70E-02	1.30E-03
1549	577200.5	4194250	9.42E-02	1.52E-02	1.16E-03
1550	577190.8	4194247	7.85E-02	1.27E-02	9.67E-04
1551	577183.5	4194239	7.17E-02	1.16E-02	8.83E-04
1552	577179.1	4194253	6.09E-02	9.83E-03	7.50E-04
1553	577174.2	4194236	6.18E-02	9.97E-03	7.61E-04

1554	577169.3	4194251	5.23E-02	8.43E-03	6.44E-04
1555	577165	4194233	5.32E-02	8.57E-03	6.54E-04
1556	577159.6	4194249	4.46E-02	7.18E-03	5.48E-04
1557	577154.7	4194232	4.50E-02	7.26E-03	5.54E-04
1558	577149.9	4194247	3.79E-02	6.11E-03	4.66E-04
1559	577145.4	4194228	3.91E-02	6.30E-03	4.81E-04
1560	577151.9	4194213	4.34E-02	7.01E-03	5.35E-04
1561	577140.1	4194244	3.25E-02	5.23E-03	3.99E-04
1562	577135.3	4194227	3.35E-02	5.41E-03	4.13E-04
1563	577141.1	4194214	3.71E-02	5.99E-03	4.57E-04
1564	577130.4	4194242	2.80E-02	4.51E-03	3.45E-04
1565	577125.8	4194224	2.91E-02	4.68E-03	3.58E-04
1566	577132.2	4194209	3.26E-02	5.26E-03	4.01E-04
1567	577120.6	4194240	2.43E-02	3.91E-03	2.99E-04
1568	577116.4	4194221	2.53E-02	4.08E-03	3.11E-04
1569	577123.3	4194205	2.87E-02	4.62E-03	3.53E-04
1570	577110.9	4194238	2.11E-02	3.41E-03	2.60E-04
1571	577106.3	4194220	2.19E-02	3.53E-03	2.69E-04
1572	577112.6	4194205	2.47E-02	3.99E-03	3.04E-04
1573	577101.2	4194235	1.85E-02	2.98E-03	2.28E-04
1574	577096.8	4194217	1.93E-02	3.12E-03	2.38E-04
1575	577103.6	4194201	2.20E-02	3.55E-03	2.71E-04
1576	577110.3	4194186	2.37E-02	3.82E-03	2.92E-04
1577	577091.4	4194233	1.64E-02	2.64E-03	2.02E-04
1578	577086.8	4194215	1.70E-02	2.74E-03	2.09E-04
1579	577093	4194201	1.92E-02	3.10E-03	2.36E-04
1580	577099.2	4194187	2.08E-02	3.35E-03	2.56E-04
1581	577081.7	4194231	1.45E-02	2.35E-03	1.79E-04
1582	577077.3	4194212	1.52E-02	2.45E-03	1.87E-04
1583	577083.9	4194197	1.72E-02	2.78E-03	2.12E-04
1584	577090.5	4194182	1.87E-02	3.02E-03	2.30E-04
1585	577072	4194228	1.30E-02	2.09E-03	1.60E-04
1586	577067.3	4194211	1.35E-02	2.17E-03	1.66E-04
1587	577073.4	4194196	1.52E-02	2.45E-03	1.87E-04
1588	577079.6	4194182	1.66E-02	2.67E-03	2.04E-04
1589	577062.2	4194226	1.16E-02	1.86E-03	1.42E-04
1590	577057.7	4194208	1.21E-02	1.95E-03	1.49E-04
1591	577064.2	4194193	1.37E-02	2.21E-03	1.69E-04
1592	577070.8	4194178	1.50E-02	2.42E-03	1.85E-04
1593	577077.3	4194163	1.58E-02	2.54E-03	1.94E-04
1594	577052.5	4194224	1.04E-02	1.67E-03	1.27E-04
1595	577048.2	4194205	1.09E-02	1.75E-03	1.34E-04
1596	577055.1	4194189	1.24E-02	2.00E-03	1.52E-04
1597	577061.9	4194174	1.36E-02	2.20E-03	1.68E-04
1598	577068.8	4194158	1.44E-02	2.32E-03	1.77E-04
1599	577042.7	4194222	9.32E-03	1.50E-03	1.15E-04
1600	577038.2	4194203	9.74E-03	1.57E-03	1.20E-04
1601	577044.7	4194189	1.10E-02	1.78E-03	1.36E-04
1602	577051.1	4194174	1.21E-02	1.96E-03	1.49E-04
1603	577057.5	4194159	1.29E-02	2.09E-03	1.59E-04
1604	577033	4194219	8.40E-03	1.35E-03	1.03E-04
1605	577028.6	4194201	8.85E-03	1.43E-03	1.09E-04

1606	577035.4	4194185	1.01E-02	1.62E-03	1.24E-04
1607	577042.2	4194170	1.11E-02	1.79E-03	1.36E-04
1608	577048.9	4194154	1.19E-02	1.91E-03	1.46E-04
1609	577023.3	4194217	7.60E-03	1.23E-03	9.36E-05
1610	577018.7	4194199	8.02E-03	1.29E-03	9.87E-05
1611	577025.1	4194184	9.08E-03	1.46E-03	1.12E-04
1612	577031.5	4194170	9.99E-03	1.61E-03	1.23E-04
1613	577037.8	4194155	1.07E-02	1.72E-03	1.32E-04
1614	577013.5	4194215	6.91E-03	1.11E-03	8.51E-05
1615	577009.1	4194196	7.35E-03	1.18E-03	9.04E-05
1616	577015.8	4194181	8.35E-03	1.35E-03	1.03E-04
1617	577022.4	4194166	9.21E-03	1.49E-03	1.13E-04
1618	577029.1	4194151	9.86E-03	1.59E-03	1.21E-04
1619	577035.8	4194135	1.03E-02	1.66E-03	1.27E-04
1620	577003.8	4194212	6.32E-03	1.02E-03	7.78E-05
1621	576999.5	4194194	6.76E-03	1.09E-03	8.32E-05
1622	577006.5	4194178	7.70E-03	1.24E-03	9.48E-05
1623	577013.4	4194162	8.51E-03	1.37E-03	1.05E-04
1624	577020.4	4194146	9.11E-03	1.47E-03	1.12E-04
1625	576994.1	4194210	5.79E-03	9.34E-04	7.13E-05
1626	576989.6	4194192	6.19E-03	9.98E-04	7.62E-05
1627	576996.2	4194177	7.01E-03	1.13E-03	8.63E-05
1628	577002.8	4194162	7.73E-03	1.25E-03	9.51E-05
1629	577009.4	4194147	8.27E-03	1.33E-03	1.02E-04
1630	577015.9	4194132	8.69E-03	1.40E-03	1.07E-04
1631	576984.3	4194208	5.33E-03	8.60E-04	6.57E-05
1632	576980	4194189	5.72E-03	9.22E-04	7.04E-05
1633	576986.8	4194174	6.50E-03	1.05E-03	8.00E-05
1634	576993.7	4194158	7.17E-03	1.16E-03	8.83E-05
1635	577000.5	4194142	7.69E-03	1.24E-03	9.47E-05
1636	577007.4	4194127	8.09E-03	1.30E-03	9.96E-05
1637	576974.6	4194206	4.93E-03	7.96E-04	6.07E-05
1638	576970.1	4194187	5.26E-03	8.49E-04	6.48E-05
1639	576976.6	4194172	5.94E-03	9.58E-04	7.31E-05
1640	576983.1	4194158	6.55E-03	1.06E-03	8.07E-05
1641	576989.7	4194143	7.04E-03	1.13E-03	8.66E-05
1642	576996.2	4194128	7.42E-03	1.20E-03	9.13E-05
1643	576964.9	4194203	4.58E-03	7.38E-04	5.63E-05
1644	576960.5	4194185	4.88E-03	7.87E-04	6.01E-05
1645	576967.2	4194169	5.51E-03	8.89E-04	6.79E-05
1646	576974	4194154	6.09E-03	9.83E-04	7.50E-05
1647	576980.8	4194138	6.57E-03	1.06E-03	8.08E-05
1648	576987.5	4194123	6.92E-03	1.12E-03	8.52E-05
1649	576955.1	4194201	4.26E-03	6.86E-04	5.24E-05
1650	576950.6	4194183	4.51E-03	7.27E-04	5.55E-05
1651	576957.1	4194168	5.06E-03	8.16E-04	6.23E-05
1652	576963.5	4194153	5.58E-03	9.00E-04	6.87E-05
1653	576970	4194139	6.03E-03	9.73E-04	7.42E-05
1654	576976.4	4194124	6.37E-03	1.03E-03	7.84E-05
1655	576945.4	4194199	3.95E-03	6.37E-04	4.87E-05
1656	576941	4194180	4.20E-03	6.77E-04	5.17E-05
1657	576947.7	4194165	4.72E-03	7.61E-04	5.81E-05

1658	576954.3	4194150	5.22E-03	8.42E-04	6.43E-05
1659	576961	4194134	5.65E-03	9.12E-04	6.96E-05
1660	576935.6	4194196	3.68E-03	5.93E-04	4.53E-05
1661	576931.4	4194178	3.92E-03	6.32E-04	4.82E-05
1662	576938.3	4194162	4.42E-03	7.13E-04	5.44E-05
1663	576945.2	4194146	4.89E-03	7.89E-04	6.02E-05
1664	576952.1	4194130	5.30E-03	8.55E-04	6.53E-05
1665	576925.9	4194194	3.43E-03	5.52E-04	4.22E-05
1666	576921.5	4194176	3.65E-03	5.88E-04	4.49E-05
1667	576928.1	4194161	4.10E-03	6.61E-04	5.04E-05
1668	576934.7	4194146	4.51E-03	7.27E-04	5.55E-05
1669	576941.3	4194130	4.89E-03	7.88E-04	6.01E-05
1670	576961.2	4194085	5.59E-03	9.02E-04	6.88E-05
1671	576916.2	4194192	3.20E-03	5.16E-04	3.94E-05
1672	577225.4	4194275	1.59E-01	2.57E-02	1.96E-03
1673	577234.3	4194277	2.15E-01	3.47E-02	2.65E-03
1674	577216.9	4194280	1.17E-01	1.89E-02	1.44E-03
1675	577232	4194286	1.93E-01	3.11E-02	2.37E-03
1676	577214.6	4194290	1.02E-01	1.64E-02	1.25E-03
1677	577201	4194273	7.76E-02	1.25E-02	9.55E-04
1678	577229.7	4194296	1.57E-01	2.53E-02	1.93E-03
1679	577212.3	4194299	7.37E-02	1.19E-02	9.08E-04
1680	577199.9	4194290	5.88E-02	9.47E-03	7.23E-04
1681	577192.5	4194278	5.72E-02	9.22E-03	7.04E-04
1682	577190	4194263	6.70E-02	1.08E-02	8.24E-04
1683	577209.9	4194309	4.12E-02	6.64E-03	5.07E-04
1684	577197.6	4194300	4.05E-02	6.53E-03	4.99E-04
1685	577184	4194284	4.14E-02	6.68E-03	5.10E-04
1686	577181.5	4194269	5.24E-02	8.45E-03	6.45E-04
1687	577195.3	4194310	2.51E-02	4.05E-03	3.09E-04
1688	577182.9	4194301	2.44E-02	3.93E-03	3.00E-04
1689	577175.5	4194289	2.93E-02	4.72E-03	3.61E-04
1690	577173	4194274	3.99E-02	6.43E-03	4.91E-04
1691	577166.8	4194293	2.14E-02	3.46E-03	2.64E-04
1692	577163.9	4194275	3.22E-02	5.18E-03	3.96E-04
1693	577158.3	4194298	1.55E-02	2.50E-03	1.91E-04
1694	577155.5	4194281	2.37E-02	3.83E-03	2.92E-04
1695	577152.7	4194264	3.21E-02	5.18E-03	3.95E-04
1696	577147	4194287	1.77E-02	2.85E-03	2.18E-04
1697	577144.3	4194270	2.45E-02	3.96E-03	3.02E-04
1698	577138.6	4194292	1.33E-02	2.14E-03	1.63E-04
1699	577135.8	4194276	1.88E-02	3.03E-03	2.31E-04
1700	577133.1	4194259	2.41E-02	3.88E-03	2.96E-04
1701	577127.4	4194281	1.45E-02	2.34E-03	1.79E-04
1702	577124.7	4194265	1.90E-02	3.07E-03	2.34E-04
1703	577118.9	4194287	1.14E-02	1.83E-03	1.40E-04
1704	577116.3	4194270	1.50E-02	2.43E-03	1.85E-04
1705	577113.6	4194254	1.86E-02	3.01E-03	2.29E-04
1706	577108.4	4194280	1.13E-02	1.82E-03	1.39E-04
1707	577107	4194271	1.30E-02	2.09E-03	1.59E-04
1708	577104.1	4194253	1.63E-02	2.62E-03	2.00E-04
1709	577098.6	4194277	1.04E-02	1.68E-03	1.28E-04

1710	577097.2	4194268	1.18E-02	1.91E-03	1.46E-04
1711	577094.3	4194251	1.45E-02	2.35E-03	1.79E-04
1712	577087.4	4194265	1.09E-02	1.76E-03	1.34E-04
1713	577084.5	4194248	1.30E-02	2.10E-03	1.61E-04
1714	577077.6	4194263	9.99E-03	1.61E-03	1.23E-04
1715	577074.8	4194246	1.17E-02	1.89E-03	1.45E-04
1716	577067.8	4194260	9.10E-03	1.47E-03	1.12E-04
1717	577065	4194243	1.05E-02	1.69E-03	1.29E-04
1718	577059.4	4194266	7.56E-03	1.22E-03	9.31E-05
1719	577056.6	4194249	8.85E-03	1.43E-03	1.09E-04
1720	577050	4194266	6.75E-03	1.09E-03	8.31E-05
1721	577048.6	4194257	7.34E-03	1.18E-03	9.03E-05
1722	577045.7	4194239	8.43E-03	1.36E-03	1.04E-04
1723	577044.2	4194231	8.91E-03	1.44E-03	1.10E-04
1724	577040.2	4194264	6.17E-03	9.94E-04	7.59E-05
1725	577037.3	4194246	7.13E-03	1.15E-03	8.78E-05
1726	577035.9	4194237	7.60E-03	1.22E-03	9.35E-05
1727	577030.4	4194261	5.59E-03	9.01E-04	6.88E-05
1728	577027.6	4194243	6.45E-03	1.04E-03	7.94E-05
1729	577026.1	4194235	6.87E-03	1.11E-03	8.45E-05
1730	577017.8	4194241	5.87E-03	9.46E-04	7.22E-05
1731	577009.5	4194247	5.01E-03	8.08E-04	6.17E-05
1732	577006.6	4194230	5.70E-03	9.19E-04	7.01E-05
1733	576999.7	4194245	4.60E-03	7.42E-04	5.66E-05
1734	576996.9	4194227	5.22E-03	8.42E-04	6.43E-05
1735	576990.2	4194244	4.18E-03	6.75E-04	5.15E-05
1736	576988.7	4194235	4.48E-03	7.23E-04	5.52E-05
1737	576987.3	4194226	4.78E-03	7.71E-04	5.89E-05
1738	576980.4	4194241	3.87E-03	6.24E-04	4.76E-05
1739	576978.9	4194232	4.16E-03	6.70E-04	5.11E-05
1740	576976	4194215	4.69E-03	7.56E-04	5.77E-05
1741	576969.2	4194230	3.87E-03	6.24E-04	4.76E-05
1742	576966.3	4194212	4.35E-03	7.02E-04	5.36E-05
1743	576960.8	4194236	3.37E-03	5.44E-04	4.15E-05
1744	576958	4194219	3.84E-03	6.19E-04	4.72E-05
1745	577171.6	4194539	5.58E-03	8.99E-04	6.87E-05
1746	577180.5	4194541	6.03E-03	9.72E-04	7.42E-05
1747	577153.2	4194542	4.41E-03	7.11E-04	5.43E-05
1748	577146	4194537	4.02E-03	6.48E-04	4.94E-05
1749	576951.1	4194234	3.16E-03	5.09E-04	3.89E-05
1750	576948.2	4194216	3.58E-03	5.77E-04	4.40E-05
1751	577169.3	4194549	5.27E-03	8.50E-04	6.48E-05
1752	577178.2	4194551	5.65E-03	9.11E-04	6.95E-05
1753	577150.9	4194552	4.18E-03	6.75E-04	5.15E-05
1754	577136.7	4194541	3.50E-03	5.64E-04	4.30E-05
1755	577122.4	4194531	2.80E-03	4.51E-04	3.44E-05
1756	576941.3	4194231	2.96E-03	4.77E-04	3.64E-05
1757	576938.5	4194214	3.33E-03	5.38E-04	4.10E-05
1758	577167	4194559	4.97E-03	8.01E-04	6.12E-05
1759	577175.9	4194561	5.28E-03	8.51E-04	6.50E-05
1760	577148.4	4194561	3.93E-03	6.34E-04	4.84E-05
1761	577141	4194556	3.64E-03	5.87E-04	4.48E-05

1762	577126.2	4194545	2.98E-03	4.81E-04	3.67E-05
1763	577118.9	4194540	2.66E-03	4.28E-04	3.27E-05
1764	577104.1	4194529	2.07E-03	3.34E-04	2.55E-05
1765	577096.7	4194524	1.85E-03	2.99E-04	2.28E-05
1766	576931.8	4194230	2.75E-03	4.43E-04	3.38E-05
1767	576930.3	4194221	2.93E-03	4.73E-04	3.61E-05
1768	576928.8	4194212	3.10E-03	5.00E-04	3.82E-05
1769	576927.4	4194203	3.27E-03	5.27E-04	4.02E-05
1770	577155.8	4194566	4.22E-03	6.80E-04	5.19E-05
1771	577164.7	4194569	4.63E-03	7.47E-04	5.70E-05
1772	577173.6	4194571	4.91E-03	7.92E-04	6.05E-05
1773	577146.1	4194571	3.70E-03	5.96E-04	4.55E-05
1774	577138.8	4194566	3.45E-03	5.56E-04	4.24E-05
1775	577131.4	4194560	3.18E-03	5.13E-04	3.91E-05
1776	577116.8	4194550	2.58E-03	4.17E-04	3.18E-05
1777	577102.1	4194539	2.05E-03	3.30E-04	2.52E-05
1778	577094.8	4194534	1.84E-03	2.97E-04	2.27E-05
1779	577080.1	4194523	1.48E-03	2.38E-04	1.82E-05
1780	577065.5	4194513	1.22E-03	1.97E-04	1.51E-05
1781	576920.5	4194219	2.75E-03	4.43E-04	3.38E-05
1782	576919.1	4194210	2.91E-03	4.69E-04	3.58E-05
1783	577162.3	4194578	4.30E-03	6.94E-04	5.30E-05
1784	577171.2	4194580	4.58E-03	7.39E-04	5.64E-05
1785	577190.1	4194292	4.02E-02	6.48E-03	4.95E-04
1786	577165.5	4194262	4.29E-02	6.91E-03	5.28E-04
1787	577212.2	4194272	1.08E-01	1.73E-02	1.32E-03
1788	577161.8	4194221	5.08E-02	8.19E-03	6.26E-04
1789	577191.8	4194546	6.53E-03	1.05E-03	8.04E-05
1790	577201.1	4194548	7.06E-03	1.14E-03	8.69E-05
1791	577210.4	4194550	7.62E-03	1.23E-03	9.37E-05
1792	577219.8	4194553	8.17E-03	1.32E-03	1.01E-04
1793	577229.1	4194555	8.73E-03	1.41E-03	1.07E-04
1794	577238.4	4194557	9.28E-03	1.50E-03	1.14E-04
1795	577247.8	4194559	9.80E-03	1.58E-03	1.21E-04
1796	577189.5	4194556	6.06E-03	9.77E-04	7.45E-05
1797	577198.8	4194558	6.49E-03	1.05E-03	7.99E-05
1798	577208.1	4194560	6.98E-03	1.13E-03	8.59E-05
1799	577217.4	4194562	7.47E-03	1.20E-03	9.20E-05
1800	577226.8	4194565	7.96E-03	1.28E-03	9.80E-05
1801	577236.1	4194567	8.46E-03	1.36E-03	1.04E-04
1802	577245.4	4194569	8.95E-03	1.44E-03	1.10E-04
1803	577187.1	4194565	5.62E-03	9.06E-04	6.92E-05
1804	577196.5	4194568	5.98E-03	9.65E-04	7.37E-05
1805	577205.8	4194570	6.42E-03	1.04E-03	7.91E-05
1806	577215.1	4194572	6.86E-03	1.11E-03	8.44E-05
1807	577224.4	4194574	7.29E-03	1.17E-03	8.97E-05
1808	577233.8	4194577	7.74E-03	1.25E-03	9.53E-05
1809	577243.1	4194579	8.19E-03	1.32E-03	1.01E-04
1810	577184.8	4194575	5.23E-03	8.43E-04	6.43E-05
1811	577194.1	4194577	5.54E-03	8.93E-04	6.82E-05
1812	577203.5	4194580	5.93E-03	9.56E-04	7.30E-05
1813	577212.8	4194582	6.32E-03	1.02E-03	7.78E-05

1814	577222.1	4194584	6.70E-03	1.08E-03	8.25E-05
1815	577231.5	4194586	7.11E-03	1.15E-03	8.75E-05
1816	577240.8	4194589	7.51E-03	1.21E-03	9.24E-05
1817	577182.5	4194585	4.87E-03	7.86E-04	6.00E-05
1818	577191.8	4194587	5.15E-03	8.31E-04	6.34E-05
1819	577201.1	4194589	5.49E-03	8.85E-04	6.76E-05
1820	577210.5	4194592	5.84E-03	9.41E-04	7.18E-05
1821	577219.8	4194594	6.17E-03	9.94E-04	7.59E-05
1822	577229.1	4194596	6.51E-03	1.05E-03	8.02E-05
1823	577238.5	4194598	6.88E-03	1.11E-03	8.47E-05
1824	577144.7	4194583	3.50E-03	5.64E-04	4.31E-05
1825	577137.2	4194577	3.29E-03	5.30E-04	4.04E-05
1826	577129.6	4194572	3.04E-03	4.90E-04	3.74E-05
1827	577122.1	4194566	2.77E-03	4.46E-04	3.41E-05
1828	577114.6	4194561	2.51E-03	4.04E-04	3.08E-05
1829	577107.1	4194555	2.25E-03	3.63E-04	2.77E-05
1830	577099.6	4194550	2.02E-03	3.25E-04	2.48E-05
1831	577092.1	4194545	1.81E-03	2.92E-04	2.23E-05
1832	577084.6	4194539	1.62E-03	2.62E-04	2.00E-05
1833	577077.1	4194534	1.45E-03	2.34E-04	1.79E-05
1834	577069.6	4194528	1.31E-03	2.11E-04	1.61E-05
1835	577062.1	4194523	1.19E-03	1.92E-04	1.47E-05
1836	577054.6	4194518	1.10E-03	1.77E-04	1.35E-05
1837	577047.1	4194512	1.02E-03	1.65E-04	1.26E-05
1838	577039.6	4194507	9.60E-04	1.55E-04	1.18E-05
1839	577032	4194501	9.11E-04	1.47E-04	1.12E-05
1840	577152.2	4194588	3.71E-03	5.97E-04	4.56E-05
1841	577161.5	4194590	4.04E-03	6.51E-04	4.97E-05
1842	577170.8	4194592	4.32E-03	6.96E-04	5.31E-05
1843	577180.2	4194595	4.57E-03	7.37E-04	5.62E-05
1844	577189.5	4194597	4.82E-03	7.77E-04	5.93E-05
1845	577198.8	4194599	5.10E-03	8.22E-04	6.27E-05
1846	577208.1	4194601	5.40E-03	8.71E-04	6.65E-05
1847	577217.5	4194604	5.69E-03	9.18E-04	7.01E-05
1848	577226.8	4194606	5.99E-03	9.66E-04	7.37E-05
1849	577236.1	4194608	6.33E-03	1.02E-03	7.79E-05
1850	577142.1	4194592	3.30E-03	5.33E-04	4.07E-05
1851	577134.3	4194586	3.12E-03	5.03E-04	3.84E-05
1852	577126.5	4194581	2.87E-03	4.63E-04	3.53E-05
1853	577118.7	4194575	2.62E-03	4.22E-04	3.22E-05
1854	577111	4194570	2.38E-03	3.83E-04	2.92E-05
1855	577103.2	4194564	2.14E-03	3.45E-04	2.63E-05
1856	577095.4	4194558	1.93E-03	3.11E-04	2.38E-05
1857	577087.6	4194553	1.73E-03	2.79E-04	2.13E-05
1858	577072.1	4194542	1.39E-03	2.24E-04	1.71E-05
1859	577064.3	4194536	1.25E-03	2.02E-04	1.54E-05
1860	577056.5	4194530	1.14E-03	1.83E-04	1.40E-05
1861	577048.8	4194525	1.04E-03	1.67E-04	1.28E-05
1862	577041	4194519	9.61E-04	1.55E-04	1.18E-05
1863	577033.2	4194514	8.98E-04	1.45E-04	1.11E-05
1864	577025.4	4194508	8.50E-04	1.37E-04	1.05E-05
1865	577017.7	4194502	8.18E-04	1.32E-04	1.01E-05

1866	577009.9	4194497	8.00E-04	1.29E-04	9.85E-06
1867	577002.1	4194491	7.87E-04	1.27E-04	9.68E-06
1868	577149.8	4194598	3.50E-03	5.64E-04	4.31E-05
1869	577159.2	4194600	3.80E-03	6.13E-04	4.68E-05
1870	577168.5	4194602	4.08E-03	6.57E-04	5.02E-05
1871	577177.8	4194604	4.30E-03	6.94E-04	5.29E-05
1872	577187.2	4194607	4.52E-03	7.29E-04	5.56E-05
1873	577196.5	4194609	4.75E-03	7.65E-04	5.84E-05
1874	577205.8	4194611	5.02E-03	8.09E-04	6.18E-05
1875	577215.1	4194613	5.27E-03	8.50E-04	6.49E-05
1876	577224.5	4194616	5.52E-03	8.91E-04	6.80E-05
1877	577233.8	4194618	5.84E-03	9.41E-04	7.18E-05
1878	577139.8	4194602	3.13E-03	5.05E-04	3.86E-05
1879	577132.1	4194596	2.95E-03	4.76E-04	3.64E-05
1880	577124.4	4194591	2.74E-03	4.42E-04	3.37E-05
1881	577116.7	4194585	2.53E-03	4.07E-04	3.11E-05
1882	577109	4194580	2.31E-03	3.72E-04	2.84E-05
1883	577101.3	4194574	2.10E-03	3.38E-04	2.58E-05
1884	577093.6	4194569	1.91E-03	3.08E-04	2.35E-05
1885	577085.8	4194563	1.72E-03	2.78E-04	2.12E-05
1886	577078.1	4194557	1.54E-03	2.49E-04	1.90E-05
1887	577070.4	4194552	1.39E-03	2.24E-04	1.71E-05
1888	577062.7	4194546	1.26E-03	2.03E-04	1.55E-05
1889	577055	4194541	1.14E-03	1.84E-04	1.40E-05
1890	577047.3	4194535	1.04E-03	1.67E-04	1.28E-05
1891	577039.6	4194530	9.51E-04	1.53E-04	1.17E-05
1892	577031.9	4194524	8.78E-04	1.42E-04	1.08E-05
1893	577024.2	4194519	8.24E-04	1.33E-04	1.01E-05
1894	577016.5	4194513	7.83E-04	1.26E-04	9.64E-06
1895	577008.8	4194507	7.58E-04	1.22E-04	9.34E-06
1896	577001.1	4194502	7.45E-04	1.20E-04	9.17E-06
1897	576993.3	4194496	7.41E-04	1.19E-04	9.12E-06
1898	576985.6	4194491	7.42E-04	1.20E-04	9.13E-06
1899	576977.9	4194485	7.56E-04	1.22E-04	9.30E-06
1900	576970.2	4194480	7.79E-04	1.26E-04	9.59E-06
1901	577147.5	4194607	3.31E-03	5.34E-04	4.07E-05
1902	577156.8	4194610	3.59E-03	5.79E-04	4.42E-05
1903	577166.2	4194612	3.86E-03	6.23E-04	4.76E-05
1904	577175.5	4194614	4.06E-03	6.55E-04	5.00E-05
1905	577184.8	4194616	4.25E-03	6.86E-04	5.23E-05
1906	577194.2	4194619	4.43E-03	7.15E-04	5.46E-05
1907	577203.5	4194621	4.67E-03	7.54E-04	5.75E-05
1908	577212.8	4194623	4.91E-03	7.91E-04	6.04E-05
1909	577222.2	4194625	5.14E-03	8.28E-04	6.32E-05
1910	577231.5	4194627	5.42E-03	8.74E-04	6.67E-05
1911	577137.5	4194612	2.97E-03	4.80E-04	3.66E-05
1912	577129.9	4194606	2.80E-03	4.52E-04	3.45E-05
1913	577122.3	4194601	2.61E-03	4.21E-04	3.22E-05
1914	577114.6	4194595	2.43E-03	3.91E-04	2.99E-05
1915	577107	4194590	2.24E-03	3.61E-04	2.75E-05
1916	577099.3	4194584	2.06E-03	3.32E-04	2.53E-05
1917	577091.7	4194579	1.89E-03	3.04E-04	2.32E-05

1918	577084	4194573	1.71E-03	2.76E-04	2.11E-05
1919	577076.4	4194568	1.55E-03	2.49E-04	1.90E-05
1920	577068.7	4194562	1.39E-03	2.25E-04	1.72E-05
1921	577061.1	4194557	1.26E-03	2.03E-04	1.55E-05
1922	577053.4	4194551	1.14E-03	1.84E-04	1.41E-05
1923	577045.8	4194545	1.04E-03	1.68E-04	1.28E-05
1924	577038.1	4194540	9.53E-04	1.54E-04	1.17E-05
1925	577030.5	4194534	8.76E-04	1.41E-04	1.08E-05
1926	577022.8	4194529	8.09E-04	1.30E-04	9.96E-06
1927	577015.2	4194523	7.57E-04	1.22E-04	9.32E-06
1928	577007.6	4194518	7.28E-04	1.17E-04	8.97E-06
1929	576999.9	4194512	7.09E-04	1.14E-04	8.73E-06
1930	576992.3	4194507	6.98E-04	1.13E-04	8.59E-06
1931	576984.6	4194501	6.95E-04	1.12E-04	8.56E-06
1932	576977	4194496	7.02E-04	1.13E-04	8.64E-06
1933	576969.3	4194490	7.16E-04	1.16E-04	8.82E-06
1934	576961.7	4194485	7.39E-04	1.19E-04	9.09E-06
1935	577145.2	4194617	3.13E-03	5.05E-04	3.86E-05
1936	577154.5	4194619	3.39E-03	5.46E-04	4.17E-05
1937	577163.9	4194622	3.65E-03	5.89E-04	4.49E-05
1938	577173.2	4194624	3.82E-03	6.16E-04	4.71E-05
1939	577182.5	4194626	3.99E-03	6.44E-04	4.91E-05
1940	577191.8	4194628	4.15E-03	6.70E-04	5.11E-05
1941	577201.2	4194631	4.36E-03	7.03E-04	5.37E-05
1942	577210.5	4194633	4.58E-03	7.38E-04	5.64E-05
1943	577219.8	4194635	4.79E-03	7.73E-04	5.90E-05
1944	577229.2	4194637	5.04E-03	8.12E-04	6.20E-05
1945	577135.3	4194621	2.82E-03	4.55E-04	3.47E-05
1946	577127.7	4194616	2.66E-03	4.30E-04	3.28E-05
1947	577120.1	4194610	2.50E-03	4.03E-04	3.07E-05
1948	577112.5	4194605	2.33E-03	3.76E-04	2.87E-05
1949	577104.9	4194600	2.16E-03	3.49E-04	2.66E-05
1950	577097.3	4194594	2.01E-03	3.25E-04	2.48E-05
1951	577089.7	4194589	1.86E-03	3.00E-04	2.29E-05
1952	577082.1	4194583	1.70E-03	2.75E-04	2.10E-05
1953	577074.6	4194578	1.55E-03	2.49E-04	1.90E-05
1954	577067	4194572	1.41E-03	2.27E-04	1.73E-05
1955	577059.4	4194567	1.28E-03	2.06E-04	1.57E-05
1956	577051.8	4194561	1.15E-03	1.86E-04	1.42E-05
1957	577044.2	4194556	1.04E-03	1.68E-04	1.28E-05
1958	577036.6	4194550	9.56E-04	1.54E-04	1.18E-05
1959	577029	4194545	8.80E-04	1.42E-04	1.08E-05
1960	577021.4	4194539	8.13E-04	1.31E-04	1.00E-05
1961	577013.8	4194534	7.53E-04	1.21E-04	9.27E-06
1962	577006.3	4194528	7.11E-04	1.15E-04	8.75E-06
1963	576998.7	4194523	6.83E-04	1.10E-04	8.41E-06
1964	576991.1	4194517	6.67E-04	1.08E-04	8.21E-06
1965	576983.5	4194512	6.58E-04	1.06E-04	8.10E-06
1966	576975.9	4194507	6.58E-04	1.06E-04	8.09E-06
1967	576968.3	4194501	6.65E-04	1.07E-04	8.19E-06
1968	576960.7	4194496	6.80E-04	1.10E-04	8.37E-06
1969	576953.1	4194490	7.01E-04	1.13E-04	8.63E-06

1970	576944	4194475	7.71E-04	1.24E-04	9.48E-06
1971	577142.9	4194627	2.96E-03	4.77E-04	3.64E-05
1972	577152.2	4194629	3.18E-03	5.13E-04	3.92E-05
1973	577161.5	4194631	3.42E-03	5.52E-04	4.21E-05
1974	577170.9	4194634	3.60E-03	5.80E-04	4.43E-05
1975	577180.2	4194636	3.75E-03	6.05E-04	4.62E-05
1976	577189.5	4194638	3.90E-03	6.29E-04	4.80E-05
1977	577198.8	4194640	4.08E-03	6.58E-04	5.02E-05
1978	577208.2	4194642	4.28E-03	6.90E-04	5.27E-05
1979	577217.5	4194645	4.48E-03	7.22E-04	5.51E-05
1980	577226.8	4194647	4.69E-03	7.57E-04	5.78E-05
1981	577268.8	4194557	1.16E-02	1.88E-03	1.43E-04
1982	577259.8	4194558	1.08E-02	1.75E-03	1.33E-04
1983	577289.9	4194565	1.25E-02	2.01E-03	1.54E-04
1984	577278	4194566	1.15E-02	1.86E-03	1.42E-04
1985	577266.2	4194567	1.06E-02	1.71E-03	1.30E-04
1986	577308.5	4194572	1.29E-02	2.08E-03	1.59E-04
1987	577296.6	4194573	1.21E-02	1.95E-03	1.49E-04
1988	577284.7	4194575	1.12E-02	1.80E-03	1.38E-04
1989	577272.9	4194576	1.03E-02	1.67E-03	1.27E-04
1990	577261	4194577	9.44E-03	1.52E-03	1.16E-04
1991	577333.3	4194579	1.29E-02	2.09E-03	1.59E-04
1992	577321.4	4194580	1.26E-02	2.04E-03	1.56E-04
1993	577309.4	4194582	1.21E-02	1.95E-03	1.49E-04
1994	577297.5	4194583	1.14E-02	1.83E-03	1.40E-04
1995	577285.6	4194584	1.05E-02	1.69E-03	1.29E-04
1996	577273.6	4194585	9.68E-03	1.56E-03	1.19E-04
1997	577261.7	4194586	8.86E-03	1.43E-03	1.09E-04
1998	577252.7	4194587	8.24E-03	1.33E-03	1.01E-04
1999	577358.2	4194586	1.20E-02	1.93E-03	1.47E-04
2000	577349.3	4194587	1.22E-02	1.96E-03	1.50E-04
2001	577340.3	4194588	1.22E-02	1.98E-03	1.51E-04
2002	577328.3	4194589	1.21E-02	1.94E-03	1.48E-04
2003	577319.3	4194590	1.17E-02	1.89E-03	1.45E-04
2004	577310.3	4194591	1.13E-02	1.83E-03	1.39E-04
2005	577301.3	4194592	1.08E-02	1.75E-03	1.33E-04
2006	577289.4	4194593	1.01E-02	1.62E-03	1.24E-04
2007	577280.4	4194594	9.46E-03	1.52E-03	1.16E-04
2008	577271.4	4194595	8.89E-03	1.43E-03	1.09E-04
2009	577259.4	4194596	8.11E-03	1.31E-03	9.98E-05
2010	577250.4	4194597	7.55E-03	1.22E-03	9.30E-05
2011	577377.3	4194594	1.06E-02	1.71E-03	1.30E-04
2012	577368.3	4194595	1.10E-02	1.77E-03	1.35E-04
2013	577359.3	4194596	1.13E-02	1.82E-03	1.39E-04
2014	577350.3	4194597	1.15E-02	1.85E-03	1.41E-04
2015	577341.3	4194597	1.15E-02	1.86E-03	1.42E-04
2016	577332.2	4194598	1.14E-02	1.84E-03	1.40E-04
2017	577323.2	4194599	1.11E-02	1.80E-03	1.37E-04
2018	577314.2	4194600	1.08E-02	1.74E-03	1.33E-04
2019	577305.2	4194601	1.03E-02	1.67E-03	1.27E-04
2020	577296.2	4194602	9.82E-03	1.58E-03	1.21E-04
2021	577287.2	4194603	9.27E-03	1.49E-03	1.14E-04

2022	577278.2	4194604	8.72E-03	1.41E-03	1.07E-04
2023	577269.2	4194605	8.18E-03	1.32E-03	1.01E-04
2024	577260.2	4194606	7.62E-03	1.23E-03	9.38E-05
2025	577251.2	4194607	7.10E-03	1.14E-03	8.74E-05
2026	577399.5	4194601	8.91E-03	1.44E-03	1.10E-04
2027	577390.4	4194602	9.42E-03	1.52E-03	1.16E-04
2028	577381.4	4194603	9.91E-03	1.60E-03	1.22E-04
2029	577372.4	4194604	1.03E-02	1.66E-03	1.27E-04
2030	577363.3	4194605	1.06E-02	1.71E-03	1.31E-04
2031	577354.3	4194606	1.08E-02	1.74E-03	1.33E-04
2032	577345.3	4194607	1.09E-02	1.76E-03	1.34E-04
2033	577336.2	4194607	1.08E-02	1.74E-03	1.33E-04
2034	577327.2	4194608	1.06E-02	1.70E-03	1.30E-04
2035	577318.1	4194609	1.02E-02	1.65E-03	1.26E-04
2036	577309.1	4194610	9.86E-03	1.59E-03	1.21E-04
2037	577300.1	4194611	9.41E-03	1.52E-03	1.16E-04
2038	577291	4194612	8.91E-03	1.44E-03	1.10E-04
2039	577282	4194613	8.39E-03	1.35E-03	1.03E-04
2040	577273	4194614	7.88E-03	1.27E-03	9.69E-05
2041	577263.9	4194615	7.36E-03	1.19E-03	9.05E-05
2042	577254.9	4194616	6.84E-03	1.10E-03	8.42E-05
2043	577245.9	4194617	6.40E-03	1.03E-03	7.87E-05
2044	577412.9	4194609	7.74E-03	1.25E-03	9.53E-05
2045	577401	4194610	8.45E-03	1.36E-03	1.04E-04
2046	577389.1	4194612	9.08E-03	1.46E-03	1.12E-04
2047	577377.2	4194613	9.64E-03	1.55E-03	1.19E-04
2048	577365.3	4194614	1.00E-02	1.62E-03	1.23E-04
2049	577353.4	4194615	1.02E-02	1.65E-03	1.26E-04
2050	577341.5	4194616	1.03E-02	1.65E-03	1.26E-04
2051	577329.6	4194618	1.00E-02	1.61E-03	1.23E-04
2052	577317.7	4194619	9.61E-03	1.55E-03	1.18E-04
2053	577305.8	4194620	9.11E-03	1.47E-03	1.12E-04
2054	577293.9	4194621	8.53E-03	1.38E-03	1.05E-04
2055	577282	4194622	7.90E-03	1.27E-03	9.73E-05
2056	577270.2	4194624	7.27E-03	1.17E-03	8.95E-05
2057	577258.3	4194625	6.64E-03	1.07E-03	8.17E-05
2058	577246.4	4194626	6.07E-03	9.78E-04	7.47E-05
2059	577429	4194617	6.54E-03	1.05E-03	8.05E-05
2060	577417.1	4194618	7.20E-03	1.16E-03	8.86E-05
2061	577405.2	4194619	7.86E-03	1.27E-03	9.68E-05
2062	577396.2	4194620	8.33E-03	1.34E-03	1.02E-04
2063	577384.3	4194622	8.89E-03	1.43E-03	1.09E-04
2064	577372.3	4194623	9.37E-03	1.51E-03	1.15E-04
2065	577363.4	4194624	9.58E-03	1.54E-03	1.18E-04
2066	577351.5	4194625	9.73E-03	1.57E-03	1.20E-04
2067	577339.5	4194626	9.69E-03	1.56E-03	1.19E-04
2068	577327.6	4194627	9.40E-03	1.52E-03	1.16E-04
2069	577318.7	4194628	9.10E-03	1.47E-03	1.12E-04
2070	577306.7	4194629	8.63E-03	1.39E-03	1.06E-04
2071	577294.8	4194631	8.09E-03	1.30E-03	9.96E-05
2072	577285.8	4194631	7.65E-03	1.23E-03	9.42E-05
2073	577273.9	4194633	7.06E-03	1.14E-03	8.69E-05

2074	577262	4194634	6.46E-03	1.04E-03	7.96E-05
2075	577253	4194635	6.03E-03	9.72E-04	7.42E-05
2076	577241.1	4194636	5.52E-03	8.91E-04	6.80E-05
2077	577440.5	4194622	5.84E-03	9.41E-04	7.18E-05
2078	577430.2	4194626	6.20E-03	1.00E-03	7.63E-05
2079	577421.3	4194627	6.66E-03	1.07E-03	8.20E-05
2080	577409.3	4194629	7.29E-03	1.17E-03	8.97E-05
2081	577400.3	4194629	7.74E-03	1.25E-03	9.53E-05
2082	577388.4	4194631	8.30E-03	1.34E-03	1.02E-04
2083	577379.4	4194632	8.68E-03	1.40E-03	1.07E-04
2084	577367.4	4194633	9.04E-03	1.46E-03	1.11E-04
2085	577358.5	4194634	9.18E-03	1.48E-03	1.13E-04
2086	577346.5	4194635	9.26E-03	1.49E-03	1.14E-04
2087	577337.5	4194636	9.15E-03	1.47E-03	1.13E-04
2088	577325.6	4194637	8.83E-03	1.42E-03	1.09E-04
2089	577316.6	4194638	8.51E-03	1.37E-03	1.05E-04
2090	577304.6	4194639	8.06E-03	1.30E-03	9.92E-05
2091	577295.6	4194640	7.68E-03	1.24E-03	9.45E-05
2092	577283.7	4194641	7.14E-03	1.15E-03	8.79E-05
2093	577274.7	4194642	6.72E-03	1.08E-03	8.27E-05
2094	577265.7	4194643	6.30E-03	1.02E-03	7.75E-05
2095	577253.8	4194644	5.75E-03	9.27E-04	7.07E-05
2096	577244.8	4194645	5.38E-03	8.68E-04	6.63E-05

PM 10				
Tons/Yr	T2	T2L3	T4	
Year 1	0.026905	0.004192	0.000184	0
Year 2	0.09055	0.0146	0.001115	0
Year 3	0.07065	0.011155	0.000655	0
Year 4	0	0	0	0

PM 2.5				
Tons/Yr	T2	T2L3	T4	
Year 1	0.024435	0.00377	0.000123	0
Year 2	0.0848	0.013605	0.001047	0
Year 3	0.066	0.01046	0.000655	0
Year 4	0	0	0	0

PM 10				
Lbs /Yr	T2	T2L3	T4	0
Year 1	53.81	8.384	0.368	0
Year 2	181.1	29.2	2.229	0
Year 3	141.3	22.31	1.309	0
Year 4	0	0	0	0

PM 2.5				
Lbs /Yr	T2	T2L3	T4	0
Year 1	48.87	7.539	0.246	0
Year 2	169.6	27.21	2.094	0
Year 3	132	20.92	1.309	0
Year 4	0	0	0	0

PM 10				
% Chng	T2	T2L3	T4	0
Year 1	100%	16%	1%	0%
Year 2	100%	16%	1%	0%
Year 3	100%	16%	1%	0%
Year 4	0%	0%	0%	0%

PM 2.5				
g/sec	T2	T2L3	T4	0
Year 1	0.000703	0.000108	3.54E-06	0
Year 2	0.002439	0.000391	3.01E-05	0
Year 3	0.001899	0.000301	1.88E-05	0
Year 4	0	0	0	0

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/5/2024
** File: D:\LSA\2024\20241919\Construction\Construction.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE D:\LSA\2022\DMD2201\Const\Const.isc
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 25949
   POLLUTID OTHER
   RUNORNOT RUN
   ERRORFIL Construction.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION CONST        AREAPOLY   577311.468  4194276.538       94.850
** Source Parameters **
   SRCPARAM CONST        0.0002718184     3.048        16
   AREAVERT CONST        577311.468 4194276.538 577248.293 4194263.373
   AREAVERT CONST        577239.334 4194306.434 577220.669 4194302.245
   AREAVERT CONST        577218.760 4194314.129 577228.830 4194316.133
   AREAVERT CONST        577270.541 4194324.533 577294.977 4194329.496
   AREAVERT CONST        577296.599 4194321.478 577297.411 4194321.621
   AREAVERT CONST        577298.890 4194314.320 577300.131 4194314.558
   AREAVERT CONST        577301.420 4194307.829 577303.615 4194308.258
   AREAVERT CONST        577305.524 4194298.332 577306.765 4194298.713
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Const"
** WeekDays:
   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT CONST        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT CONST        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
```

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   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP CONST    CONST
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED Construction.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE 23254_15-19.SFC
   PROFFILE 23254_15-19.PFL
   SURFDATA 23254 2015
   UAIRDATA 23230 2015 OAKLAND/WSO_AP
   PROFBASE 18.0 METERS
   STARTEND 2015 1 1 1 2019 12 31 24
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 CONST 1ST CONSTRUCTION.AD\01H1G001.PLT 31
   PLOTFILE PERIOD CONST CONSTRUCTION.AD\PE00G001.PLT 32
   SUMMFILE Construction.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------
```

```
A Total of            0 Fatal Error Message(s)
A Total of            2 Warning Message(s)
A Total of            0 Informational Message(s)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186      90       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187      90       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

***********************************
*** SETUP Finishes Successfully ***
***********************************
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY ***

- -

** Model Options Selected:
* Model Uses Regulatory DEFAULT Options
* Model Is Setup For Calculation of Average CONCentration Values.
* NO GAS DEPOSITION Data Provided.
* NO PARTICLE DEPOSITION Data Provided.
* Model Uses NO DRY DEPLETION. DDPLETE = F
* Model Uses NO WET DEPLETION. WETDPLT = F
* Stack-tip Downwash.
* Model Accounts for ELEVated Terrain Effects.
* Use Calms Processing Routine.
* Use Missing Data Processing Routine.
* No Exponential Decay.
* Model Uses URBAN Dispersion Algorithm for the SBL for 1 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 25949.0 ; Urban Roughness Length = 1.000 m
* Urban Roughness Length of 1.0 Meter Used.
* ADJ_U* - Use ADJ_U* option for SBL in AERMET
* CCVR_Sub - Meteorological data includes CCVR substitutions
* TEMP_Sub - Meteorological data includes TEMP substitutions
* Model Assumes No FLAGPOLE Receptor Heights.
* The User Specified a Pollutant Type of: OTHER

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates PERIOD Averages

**This Run Includes: 1 Source(s); 1 Source Group(s); and 2096 Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 0 VOLUME source(s)
and: 1 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 19191

**Output Options Selected:
Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

```
**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    18.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                 ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.7 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   Construction.err
**File for Summary of Results:   Construction.sum
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
CONST	0	0.27182E-03	577311.5	4194276.5	94.8	3.05	16	0.00	YES	HRDOW	NO

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
CONST	CONST ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	25949.	CONST ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = CONST ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
							DAY OF WEEK = WEEKDAY								
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
							DAY OF WEEK = SATURDAY								
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
							DAY OF WEEK = SUNDAY								
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
```

METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2015 1 1 1
AND END DATE: 2019 12 31 24

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: 23254_15-19.SFC Met Version: 19191
Profile file: 23254_15-19.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 23254 Upper air station no.: 23230
Name: UNKNOWN Name: OAKLAND/WSO_AP
Year: 2015 Year: 2015

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
15	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	0.90	1.00	0.00	0.	18.0	279.9	2.0
15	01	01	1	02	-8.4	0.135	-9.000	-9.000	-999.	119.	26.3	0.03	0.90	1.00	2.36	358.	18.0	279.2	2.0
15	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	0.90	1.00	0.00	0.	18.0	276.4	2.0
15	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	0.90	1.00	0.00	0.	18.0	274.9	2.0
15	01	01	1	05	-8.6	0.136	-9.000	-9.000	-999.	120.	26.5	0.04	0.90	1.00	2.36	13.	18.0	275.4	2.0
15	01	01	1	06	-12.9	0.167	-9.000	-9.000	-999.	164.	32.9	0.04	0.90	1.00	2.86	22.	18.0	274.9	2.0
15	01	01	1	07	-8.5	0.135	-9.000	-9.000	-999.	119.	26.0	0.03	0.90	1.00	2.36	335.	18.0	274.2	2.0
15	01	01	1	08	-17.8	0.197	-9.000	-9.000	-999.	210.	42.8	0.03	0.90	1.00	3.36	353.	18.0	274.2	2.0
15	01	01	1	09	1.8	-9.000	-9.000	-9.000	12.	-999.	-99999.0	0.08	0.90	0.39	0.00	0.	18.0	275.9	2.0
15	01	01	1	10	46.3	0.310	0.776	0.008	367.	415.	-58.7	0.04	0.90	0.27	4.36	1.	18.0	277.0	2.0
15	01	01	1	11	80.9	0.230	0.961	0.009	398.	268.	-13.7	0.04	0.90	0.22	2.86	24.	18.0	279.9	2.0
15	01	01	1	12	100.4	0.263	1.063	0.007	435.	323.	-16.4	0.03	0.90	0.21	3.36	336.	18.0	280.9	2.0
15	01	01	1	13	98.8	0.259	1.120	0.006	516.	316.	-15.9	0.03	0.90	0.20	3.36	63.	18.0	283.1	2.0
15	01	01	1	14	85.6	0.285	1.087	0.005	545.	366.	-24.6	0.03	0.90	0.21	3.86	69.	18.0	283.1	2.0
15	01	01	1	15	56.9	0.189	0.960	0.005	563.	201.	-10.8	0.03	0.90	0.25	2.36	62.	18.0	284.2	2.0
15	01	01	1	16	14.8	0.176	0.614	0.005	568.	177.	-33.2	0.04	0.90	0.33	2.36	94.	18.0	283.8	2.0
15	01	01	1	17	-7.9	0.135	-9.000	-9.000	-999.	120.	28.7	0.03	0.90	0.57	2.36	341.	18.0	280.9	2.0
15	01	01	1	18	-12.5	0.165	-9.000	-9.000	-999.	161.	32.6	0.03	0.90	1.00	2.86	37.	18.0	279.9	2.0
15	01	01	1	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	0.90	1.00	0.00	0.	18.0	278.1	2.0
15	01	01	1	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	0.90	1.00	0.00	0.	18.0	277.0	2.0
15	01	01	1	21	-4.9	0.103	-9.000	-9.000	-999.	79.	20.5	0.04	0.90	1.00	1.76	140.	18.0	276.4	2.0
15	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	0.90	1.00	0.00	0.	18.0	275.4	2.0
15	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	0.90	1.00	0.00	0.	18.0	274.9	2.0
15	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.08	0.90	1.00	0.00	0.	18.0	274.9	2.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
15	01	01	01	18.0	1	-999.	-99.00	279.9	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
CONST	1ST HIGHEST VALUE IS	34.53574 AT (577296.21, 4194240.41, 93.87, 367.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	33.30939 AT (577260.46, 4194242.13, 99.00, 367.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	32.10392 AT (577305.25, 4194242.61, 93.36, 367.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	28.50130 AT (577314.28, 4194244.81, 92.84, 367.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	27.14859 AT (577262.74, 4194232.39, 97.32, 367.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	24.46409 AT (577298.58, 4194230.69, 92.54, 367.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	23.10249 AT (577307.61, 4194232.89, 92.12, 367.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	22.09393 AT (577265.02, 4194222.66, 95.52, 367.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	21.12967 AT (577316.65, 4194235.10, 91.83, 367.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	21.02382 AT (577343.82, 4194290.60, 95.30, 367.00, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
CONST	HIGH 1ST HIGH VALUE IS 2540.16091	ON 18010409:	AT (577260.46, 4194242.13, 99.00, 367.00, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 2977 Informational Message(s)

A Total of 43824 Hours Were Processed

A Total of 1806 Calm Hours Identified

A Total of 1171 Missing Hours Identified (2.67 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
ME W186 90 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50
ME W187 90 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****
*** AERMOD Finishes Successfully ***
****

HARP2 - HRACalc (dated 22118) 9/6/2024 3:57:49 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: ON
16 years to 70 years: ON

****

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Sensitive_Year1_CancerRisk.csv
Cancer risk total by receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Sensitive_Year1_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Sensitive_Year1_NCChronicRisk.csv
Chronic risk total by receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Sensitive_Year1_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Sensitive_Year1_NCAcuteRisk.csv
Acute risk total by receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Sensitive_Year1_NCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 9/6/2024 4:32:20 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 1
Total Exposure Duration: 1

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 1
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: ON
16 years to 70 years: ON

****

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Sensitive_Year2_CancerRisk.csv
Cancer risk total by receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Sensitive_Year2_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Sensitive_Year2_NCChronicRisk.csv
Chronic risk total by receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Sensitive_Year2_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Sensitive_Year2_NCAcuteRisk.csv
Acute risk total by receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Sensitive_Year2_NCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 9/6/2024 4:37:34 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 2
Total Exposure Duration: 1

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 1
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: ON
16 years to 70 years: ON

****

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Sensitive_Year3_CancerRisk.csv
Cancer risk total by receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Sensitive_Year3_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Sensitive_Year3_NCChronicRisk.csv
Chronic risk total by receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Sensitive_Year3_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Sensitive_Year3_NCAcuteRisk.csv
Acute risk total by receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Sensitive_Year3_NCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 9/6/2024 5:11:04 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 1

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 1
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Worker_Year1_CancerRisk.csv
Cancer risk total by receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Worker_Year1_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Worker_Year1_NCChronicRisk.csv
Chronic risk total by receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Worker_Year1_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Worker_Year1_NCAcuteRisk.csv
Acute risk total by receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Worker_Year1_NCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 9/6/2024 5:17:38 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 17
Total Exposure Duration: 1

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 1
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Worker_Year2_CancerRisk.csv
Cancer risk total by receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Worker_Year2_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Worker_Year2_NCChronicRisk.csv
Chronic risk total by receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Worker_Year2_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Worker_Year2_NCAcuteRisk.csv
Acute risk total by receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Worker_Year2_NCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 9/6/2024 5:21:18 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 18
Total Exposure Duration: 1

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 1
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Worker_Year3_CancerRisk.csv
Cancer risk total by receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Worker_Year3_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Worker_Year3_NCChronicRisk.csv
Chronic risk total by receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Worker_Year3_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Worker_Year3_NCAcuteRisk.csv
Acute risk total by receptor saved to:
D:\LSA\2024\20241919\HARP_CONST\hra\Const_Worker_Year3_NCAcuteRiskSumByRec.csv
HRA ran successfully

HARP Project Summary Report 9/6/2024 7:43:15 PM

PROJECT INFORMATION
HARP Version: 22118
Project Name: HARP_CONST
Project Output Directory: D:\LSA\2024\20241919\HARP_CONST
HARP Database: NA

FACILITY INFORMATION
Origin
X (m):0
Y (m):0
Zone:1
No. of Sources:0
No. of Buildings:0

EMISSION INVENTORY
No. of Pollutants:1
No. of Background Pollutants:0

Emissions

ScrID	StkID	ProID	PolID	PolAbbrev	Multi	Annual Ems (lbs/yr)	MaxHr Ems (lbs/hr)	MWAF
Const	0	0	9901	DieselExhPM	4.2	141.3	0	1

Background

PolID	PolAbbrev	Conc (ug/m^3)	MWAF

Ground level concentration files (\glc\)

9901MAXHR.txt
9901PER.txt

POLLUTANT HEALTH INFORMATION
Health Database: D:\HARP2\Tables\HEALTH17320.mdb
Health Table Version: HEALTH22013
Official: True

PolID	PolAbbrev	InhCancer	OralCancer	AcuteREL	InhChronicREL	OralChronicREL	InhChronic8HRREL
9901	DieselExhPM	1.1			5		

CARLSBAD
CLOVIS
IRVINE
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

MEMORANDUM

DATE: September 10, 2024

TO: Jeff Stone, Partner, Diamond Construction Inc.

FROM: Kat Hughes, Senior Environmental Planner

SUBJECT: Water Quality Assessment Memorandum for the Oak Hill Road Apartments Project

PROJECT DESCRIPTION

The Oak Hills Road Apartments Project (project) site is at 1001 Oak Hill Road in Lafayette, California, on Assessor's Parcel Numbers 243-030-033-1, 243-030-038-0, 243-030-020-8, and 243-030-041-4. The 1.21-acre project site is along Oak Hill Road within Lafayette's downtown core, approximately 300 feet north of Mount Diablo Boulevard and approximately 1,000 feet southeast of Bay Area Rapid Transit's (BART) Lafayette Station. The project site slopes from north to south. The project site is currently developed with three existing commercial/retail buildings (three-story 4,700 square feet [sf]; two-story 2,725 sf; and one-story 1,645 sf) and associated surface parking lots. Landscaping is present around and between the buildings and along the Oak Hill Road frontage. The northern boundary of the project site is adjacent to the East Bay Municipal Utility District's (EBMUD) Mokelumne Aqueduct. State Route 24 (SR-24) and the Oak Hill Road offramp are located just north of the EBMUD Aqueduct. An apartment building and commercial developments are to the west of the project site, commercial uses and Mt. Diablo Boulevard are to the south of the project site, and commercial uses and Oak Hill Road are to the east of the project site (Figures 1 and 2; all figures attached).

The proposed project would demolish the existing buildings and associated parking lots to construct a 7-level, 172,399 gross square foot multifamily building containing 90 residential condominiums and 2,000 square feet of commercial use. The structure would include a below-grade parking garage with 164 parking spaces, 151 of which would be provided by use of a mechanical/stacked parking system. The maximum height of the subterranean parking would be xx feet; the maximum height of the building, including the subterranean parking, would be 82 feet.

The project would require the demolition and removal of all existing buildings on site and removal of 16 protected trees, and would result in a total disturbed soil area of 1.21 acres.

The project would include rooftop solar panels and would be equipped with bioretention planters along the face of the building on Oak Hill Road. Electrical vehicle charging would be provided as

required by applicable codes, and some bicycle parking would be provided near the building's lobby and entry locations.

Construction activities are anticipated to take place between October 2025 and December 2027. Construction of the proposed project would require the demolition of approximately 9,070 square feet of existing buildings and would require the export of approximately 4,000 cubic yards of soil.

REGULATORY SETTING

Federal Regulations

Clean Water Act

In 1972, the Federal Water Pollution Control Act (now referred to as the Clean Water Act [CWA]) was amended to require that the discharge of pollutants into waters of the United States from any point source be effectively prohibited unless the discharge is in compliance with a National Pollutant Discharge Elimination System (NPDES) permit. In 1987, the CWA was again amended to require that the United States Environmental Protection Agency (EPA) establish regulations for the permitting of storm water discharges (as a point source) by municipal and industrial facilities and construction activities under the NPDES permit program. The regulations require that Municipal Separate Storm Sewer System discharges to surface waters be regulated by an NPDES permit. The CWA requires states to adopt water quality standards for waterbodies and have those standards approved by the EPA. Water quality standards consist of designated beneficial uses for a particular waterbody (e.g., wildlife habitat, agricultural supply, fishing), along with water quality criteria necessary to support those uses. Water quality criteria are set concentrations or levels of constituents (e.g., lead, suspended sediment, and fecal coliform bacteria) or narrative statements that represent the quality of water that support a particular use. Because California had not established a complete list of acceptable water quality criteria for toxic pollutants, the EPA Region IX established numeric water quality criteria for toxic constituents in the form of the California Toxics Rule (CTR).

When designated beneficial uses of a particular waterbody are being compromised by water quality, Section 303(d) of the CWA requires identifying and listing that waterbody as impaired. Once a waterbody has been deemed impaired, a total maximum daily load (TMDL) must be developed for each impairing water quality constituent. A TMDL is an estimate of the total load of pollutants from point, nonpoint, and natural sources that a waterbody may receive without exceeding applicable water quality standards (often with a "factor of safety" included, which limits the total load of pollutants to a level well below that which could cause the standard to be exceeded). Once established, the TMDL is allocated among current and future dischargers into the waterbody.

Direct discharges of pollutants into waters of the United States are not allowed except in accordance with the NPDES program established in Section 402 of the CWA.

Clean Water Act, Section 303, List of Impaired Waterbodies. The CWA requires that California report on the quality of its surface waterbodies every two years. The California Integrated Report, developed to meet this requirement, consists of the Clean Water Act section 303(d) list of impaired waters and 305(b) condition report, and evaluates data from California surface waters and

determines whether they contain pollutants at levels that exceed water quality standards. Additionally, the 303(d) list includes a priority schedule for the development of TMDL implementation for each contaminant impacting the waterbody. Development of the California Integrated Report is a collaborative process between the State Water Resources Control Board (SWRCB) and Regional Water Quality Control Boards (RWQCBs) and input from the public. The SWRCB, in compliance with Section 303(d) of the CWA, adopted the 2020-2022 California Integrated Report (CWA Section 303(d) List/305(b) Report) on January 19, 2022, and the EPA approved the report on May 11, 2022. On February 6, 2024, the SWRCB adopted the 2024 California Integrated Report, including the 2024 303(d) List of New Waterbody-pollutant Combination Listing and Delistings. The 2024 California Integrated Report was submitted to the EPA March 26, 2024, but has not yet been approved. Until EPA approves the 2024 California Integrated Report, the 2020-2022 California Integrated Report remains in effect as the current Integrated Report.

Project receiving waters include Lafayette Creek, Las Trampas Creek, Walnut Creek, and Suisun Bay. Lafayette is not listed for any impairments. Walnut Creek is listed on the 2020-2022 303(d) list as impaired for pesticides. Suisun Bay is listed as impaired for toxic organics, pesticides, metals, and invasive species. Las Trampas Creek at Grizzly Creek is newly listed on the 2024 303(d) list as impaired for toxicity.

National Flood Insurance Act

Congress acted to reduce the costs of disaster relief by passing the National Flood Insurance Act of 1968 and the Flood Disaster Protection Act of 1973. The intent of these acts was to reduce the need for large, publicly funded flood control structures and disaster relief efforts by restricting development in floodplains. The Federal Emergency Management Agency (FEMA) administers the National Flood Insurance Program (NFIP) to provide subsidized flood insurance to communities that comply with FEMA regulations limiting development in a floodplain. FEMA issues Flood Insurance Rate Maps (FIRM) of communities participating in the NFIP. These maps delineate flood hazard zones in the community.

State Regulations

Porter-Cologne Water Quality Control Act of 1970

The federal CWA places the primary responsibility for the control of water pollution and planning the development and use of water resources with the states, although it does establish certain guidelines for the states to follow in developing their programs.

California's primary statute governing water quality and water pollution is the Porter-Cologne Water Quality Control Act of 1970 (Porter-Cologne Act). The Porter-Cologne Act grants the SWRCB and the nine RWQCBs broad powers to protect water quality and is the primary vehicle for the implementation of California's responsibility under the federal CWA. The Porter-Cologne Act grants the SWRCB and RWQCBs the authority and responsibility to adopt plans and policies, to regulate discharges to surface water and groundwater, to regulate waste disposal sites, and to require cleanup of discharges of hazardous materials and other pollutants. The Porter-Cologne Act also

establishes reporting requirements for unintended discharges of any hazardous substance, sewage, oil, or petroleum product.

Each RWQCB must formulate and adopt a water quality plan for its region. The regional plans are to conform to the policies set forth in the Porter-Cologne Act and established by the SWRCB in its State water policy. The Porter-Cologne Act also provides that an RWQCB may include in its region a regional plan with water discharge prohibitions applicable to particular conditions, areas, or types of waste. Lafayette, including the project site, is within the jurisdictional boundaries of the San Diego RWQCB.

California Toxics Rule

California had not established a complete list of acceptable water quality criteria for toxic pollutants. EPA Region IX established numeric water quality criteria for toxic constituents in the form of the CTR. The CTR provides water quality criteria for certain potentially toxic compounds for inland surface waters, enclosed bays, estuaries, and waters designated for human health or aquatic life uses. The CTR is often used by the RWQCBs when establishing water quality objectives and TMDLs. Although the CTR criteria do not apply directly to discharges of storm water runoff, they are used as benchmarks for toxics in urban runoff. The CTR is used as a benchmark to evaluate the potential ecological impacts of storm water runoff to receiving waters. The CTR establishes acute and chronic surface water quality standards for certain waterbodies. Acute criteria provide benchmarks for the highest permissible concentration below which aquatic life can be exposed for short periods of time without deleterious effects. Chronic criteria provide benchmarks for an extended period of time (i.e., 4 days or more) without deleterious effects. The acute CTR criteria have a shorter relevant averaging period (less than 4 days) and provide a more appropriate benchmark for comparison for storm water flows.

CTR criteria are applicable to the receiving waterbody and therefore must be calculated based on the probable hardness values of the receiving waters. At higher hardness values for receiving waters, certain constituents (including copper, lead, and zinc) are more likely to be complexed (bound with) components in the water column. This in turn reduces the bioavailability and resulting potential toxicity of these metals.

General Construction Activity Stormwater Permit

The *General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities,* Order No. 2022-0057-DWQ, NPDES No. CAS000002 (Construction General Permit), adopted by the SWRCB, regulates construction activity that includes clearing, grading, and excavation resulting in soil disturbance of at least 1 acre of total land area. The Construction General Permit authorizes the discharge of stormwater to surface waters from construction activities.

The Construction General Permit requires that all developers of land where construction activities will take place over more than 1 acre do the following:

1. Complete a Risk Assessment to determine pollution prevention requirements pursuant to the three risk levels established in the General Permit;

2. Eliminate or reduce non-stormwater discharges to storm sewer systems and other waters of the United States;

3. Develop and implement a Stormwater Pollution Prevention Plan (SWPPP) that specifies best management practices (BMP) that will reduce pollution in stormwater discharges to the Best Available Technology/Economically Achievable/Best Conventional Pollutant Control Technology standards;

4. Perform inspections and maintenance of all BMPs; and

5. Conduct stormwater sampling, if required based on risk level.

To obtain coverage under the Construction General Permit, a project applicant must electronically file all permit registration documents with the SWRCB prior to the start of construction. Permit registration documents must include a:

1. Notice of Intent
2. Risk Assessment
3. Site map
4. SWPPP
5. Annual fee
6. Signed certification statement

Typical BMPs contained in SWPPPs are designed to minimize erosion during construction, stabilize construction areas, control sediment, and control pollutants from construction materials. BMPs implemented could include, but would not be limited to: physical barriers to prevent erosion and sedimentation, construction of sedimentation basins, limitations on work periods during storm events, use of swales, protection of stockpiled materials, and a variety of other measures that would substantially reduce or prevent erosion or sedimentation from occurring during construction. Post-construction requirements necessitate that construction sites be restored to pre-project hydrological conditions to ensure that the physical and biological integrity of aquatic ecosystems are sustained in their existing condition. The SWPPP must also include a discussion of the program to inspect and maintain all BMPs.

Sustainable Groundwater Management Act

The Sustainable Groundwater Management Act (SGMA) of 2014 is a comprehensive, three-bill package that Governor Jerry Brown signed into law in September 2014. The SGMA provides a framework for sustainable management of groundwater supplies by local authorities, with a limited role for State intervention if necessary to protect the resource. The plan is intended to ensure a reliable groundwater supply for California for years to come.

The SGMA requires governments and water agencies of high- and medium-priority basins to halt overdrafts of groundwater basins. The SGMA requires the formation of local groundwater sustainability agencies that are required to adopt Groundwater Sustainability Plans to manage the

sustainability of the groundwater basins. There are two groundwater sustainability agencies in the project area, East Bay Municipal Utilities District (EBMUD), and Contra Costa County. However, there are no defined groundwater basins in the project area, and the City does not utilize groundwater as its primary water supply.

Regional Regulations

San Francisco Bay Water Quality Control Plan (Basin Plan)

The San Francisco Bay RWQCB has adopted a Water Quality Control Plan (Basin Plan) for its region of responsibility that delineates water resource area boundaries based on hydrological features. For the purposes of achieving and maintaining water quality protection, specific beneficial uses have been identified for each of the surface waters and groundwater management zones described in the Basin Plan. Once beneficial uses are designated, appropriate water quality objectives can be established, and programs that maintain or enhance water quality can be implemented to ensure the protection of beneficial uses.

The City's municipal storm drain outfalls to Lafayette Creek, which drains to Las Trampas Creek, then Walnut Creek, and eventually Suisun Bay. Therefore, Lafayette Creek, Las Trampas Creek, Walnut Creek, and Suisun Bay are the receiving waters for the project site. Beneficial uses of the project site's surface receiving waters are shown in Table A.

Table A: Beneficial Uses of Surface Receiving Waters

Receiving Water	Beneficial Use																		
	AGR	MUN	FRESH	GWR	IND	PROC	COMM	SHELL	COLD	EST	MAR	MIGR	RARE	SPWN	WRM	WILD	REC1	REC2	NAV
Surface Waters																			
Las Trampas Creek									●				●		●	●	●	●	
Lafayette Creek									●						●	●	●	●	
Walnut Creek									●			●	●	●	●	●	●	●	
Suisun Bay					●	●	●			●		●	●	●		●	●	●	●

Source: *Water Quality Control Plan, San Francisco Bay Basin* (San Francisco Bay RWQCB 2024).

● = Existing Beneficial Use

AGR = agricultural supply
ASBS = Areas of special biological significance
COLD = cold freshwater habitat
COMM = commercial and sport fishing
EST = estuarine habitat
FRESH = freshwater replenishment
GWR = groundwater recharge
IND = industrial service supply
MAR = marine habitat
MIGR = fish migration
MUN = municipal and domestic supply
NAV = navigation
PROC = industrial process supply
RARE = preservation of rare and endangered species
REC1 = water contact recreation
REC2 = non-contact water recreation
RWQCB = Regional Water Quality Control Board
SHELL = shellfish harvesting
SPWN = fish spawning
WRM = warm freshwater habitat
WILD = wildlife habitat

Basin Plans also establish implementation programs to achieve water quality objectives to protect beneficial uses and require monitoring to evaluate the effectiveness of the programs. These objectives must comply with the State antidegradation policy (State Board Resolution No. 68-16), which is designed to maintain high-quality waters while allowing some flexibility if beneficial uses are not unreasonably affected.

Basin Plans have established narrative and numeric water quality objectives for inland surface streams and groundwater. If water quality objectives are exceeded, the RWQCBs can use their regulatory authority to require municipalities to reduce pollutant loads to the affected receiving waters. Relevant surface water quality objectives under the jurisdiction of the San Francisco Bay RWQCB that are applicable to the receiving waters for the project site are shown in Table B. The project site is not underlain by an identified groundwater basin, and there are no groundwater quality objectives applicable to the project site.

In addition to the water quality objectives applicable to all surface and ground waters, the San Francisco RWQCB has designated site-specific water quality objectives for certain surface waters. There are no site-specific water quality objectives for Lafayette Creek, Las Trampas Creek, or Walnut Creek. The site-specific water quality objectives for Suisun Bay are:

- **Copper:**
  - 4-day average 6.0 milligram per liter (mg/L) Criteria Continuous Concentration
  - 1-hour average mg/L Criteria Maximum Concentration

Table B: Surface Water Quality Objectives

Constituent	Objective
Bacteria, Coliform	In waters designated for REC-1, the fecal coliform concentration based on a minimum of not less than five samples for any 30-day period shall not exceed a log mean of 200 organisms/100 mL, nor shall more than 10 percent of all samples collected during any 30-day period exceed 400 organisms/100 mL.
Bacteria, E. Coli	In fresh waters designated for REC-1, the steady-state E. coli concentration shall not exceed 126 colonies/100 mL, the maximum concentration shall not exceed 406 colonies/100 mL at moderately or lightly used areas, and the maximum concentration shall not exceed 576 colonies/100 mL for infrequently used areas.
Bacteria, Enterococci	In salt waters designated for REC-1, the steady-state enterococci concentration shall not exceed 33 colonies/100 mL, the maximum concentration shall not exceed 108 colonies/100 mL at moderately or lightly used areas, and the maximum concentration shall not exceed 151 colonies/100 mL for infrequently used areas.
Bioaccumulation	Controllable water quality factors shall not cause a detrimental increase in concentrations of toxic substances found in bottom sediments or aquatic life. Effects on aquatic organisms, wildlife, and human health will be considered.
Biostimulatory Substances	Waters shall not contain biostimulatory substances in concentrations that promote aquatic growths to the extent that such growths cause nuisance or adversely affect the water for beneficial uses. Changes in chlorophyll and associated phytoplankton communities follow complex dynamics that are sometimes associated with a discharge of biostimulatory substances. Irregular and extreme levels of chlorophyll or phytoplankton blooms may indicate exceedance of this objective and require investigation.

Table B: Surface Water Quality Objectives

Constituent	Objective
Color	Waters shall be free of coloration that causes nuisance or adversely affects the water for beneficial uses.
Dissolved Oxygen	Dissolved oxygen levels shall not be less than 5 mg/L in inland surface waters with a designated WARM beneficial use. The annual mean dissolved oxygen concentration shall not be less than 7 mg/L more than 20 percent of the time. For Suisun Marsh, the following objectives apply: The dissolved oxygen (DO) acute objective is 3.8 mg/L minimum daily average and the chronic objective is 5.0 mg/L minimum daily average for all sloughs and channels.
Floating Materials	Waters shall not contain floating material, including solids, liquids, foams, and scum, in concentrations that cause nuisance or adversely affect the water for beneficial uses.
Oil and Grease	Waters shall not contain oils, greases, waxes, or other materials in concentrations that result in a visible film or coating on the surface of the water or on objects in the water, or that cause nuisance or otherwise adversely affect beneficial uses.
Population and Community Ecology	All waters shall be maintained free of toxic substances in concentrations that are lethal to or that produce significant alterations in population or community ecology or receiving water biota. In addition, the health and life history characteristics of aquatic organisms in waters affected by controllable water quality factors shall not differ significantly from those for the same waters in areas unaffected by controllable water quality factors.
pH	The pH shall not be depressed below 6.5 nor raised above 8.5. This encompasses the pH range usually found in waters within the basin. Controllable water quality factors shall not cause changes greater than 0.5 units in normal ambient pH levels.
Radioactivity	Radionuclides shall not be present in concentrations that are deleterious to human, plant, animal, or aquatic life or that result in the accumulation of radionuclides in the food web to an extent that presents a hazard to human, plant, animal, or aquatic life. Waters designated for use as domestic or municipal supply shall not contain concentrations of radionuclides in excess of limits specified in Section 64443 (Radioactivity) of Title 22 of the California Code of Regulations.
Salinity	Controllable water quality factors shall not increase the total dissolved solids or salinity of waters of the state so as to adversely affect beneficial uses, particularly fish migration and estuarine habitat.
Sediment	The suspended sediment load and suspended sediment discharge rate of surface water shall not be altered in such a manner as to cause nuisance or adversely affect beneficial uses. Controllable water quality factors shall not cause a detrimental increase in the concentrations of toxic pollutants in sediments or aquatic life.
Settleable Material	Waters shall not contain substances in concentrations that result in the deposition of material that cause nuisance or adversely affect beneficial uses.
Suspended Material	Waters shall not contain suspended material in concentrations that cause nuisance or adversely affect beneficial uses.
Sulfide	All water shall be free from dissolved sulfide concentrations above natural background levels. Sulfide occurs in San Francisco Bay muds as a result of bacterial action on organic matter in an anaerobic environment. Concentrations of only a few hundredths of a milligram per liter can cause noticeable odor or be toxic to aquatic life. Violation of the sulfide objective will reflect violation of dissolved oxygen objectives as sulfides cannot exist to a significant degree in an oxygenated environment.
Tastes and Odors	Waters shall not contain taste- or odor-producing substances in concentrations that impact undesirable tastes or odors to fish flesh or other edible products of aquatic origin, that cause nuisance, or that adversely affect beneficial uses.

Table B: Surface Water Quality Objectives

Constituent	Objective
Temperature	The natural receiving water temperature of intrastate waters shall not be altered unless it can be demonstrated to the satisfaction of the San Francisco Bay RWQCB that such alteration in temperature does not adversely affect beneficial uses. Additionally, at no time or place shall the temperature of cold or warm freshwater habitat be increased more than 5 degrees Fahrenheit above the natural receiving water temperature.
Toxicity	All waters shall be maintained free of toxic substances in concentrations that are toxic to, or that produce detrimental responses in aquatic organisms. Detrimental responses include, but are not limited to, decreased growth rates and decreased reproductive success of resident or indicator species. There shall be no acute toxicity in ambient waters. Acute toxicity is defined as median of less than 90 percent survival, or less than 70 percent survival, 10 percent of the time, of test organisms in a 96-hour static or continuous flow test. There shall be no chronic toxicity in ambient waters. Chronic toxicity is a detrimental biological effect on growth rate, reproduction, fertilization success, larval development, population abundance, community composition, or any other relevant measure of the health of an organism, population, or community. Attainment of this objective will be determined by analyses of indicator organisms, species diversity, population density, growth anomalies, or toxicity tests, or other methods selected by the San Francisco Bay RWQCB, which will also consider other relevant information and numeric criteria and guidelines for toxic substances developed by other agencies, as appropriate.
Turbidity	Waters shall be free of changes in turbidity that cause nuisance or adversely affect beneficial uses. Increases from normal background light penetration or turbidity relatable to waste discharge shall not be greater than 10 percent in areas where natural turbidity is greater than 50 NTU.
Un-Ionized Ammonia	The discharge wastes shall not cause receiving waters to contain concentrations of un-ionized ammonia in excess of 0.025 mg/L annual median, a maximum of 0.16 mg/L in the Central Bay, and a maximum of 0.4 mg/L in the Lower Bay.

Source: *Water Quality Control Plan for the San Francisco Bay Basin* (San Francisco Bay RWQCB, 2024).

mg/L = milligrams per liter
mL = milliliter
NTU = nephelometric turbidity units
REC-1 = Contact Water Recreation
RWQCB = Regional Water Quality Control Board
WARM = warm freshwater habitat

California Regional Water Quality Control Board San Francisco Bay Region Municipal Regional Stormwater NPDES Permit No. CAS612008

Pursuant to Section 402 of the CWA and the Porter-Cologne Act, municipal stormwater discharges in Lafayette are regulated under the San Francisco Bay Region Municipal Regional Stormwater NPDES Permit, Order No. R2-2022-0018, NPDES Permit No. CAS612008, as amended by R2-2023-0019which was adopted on May 11, 2022 (San Francisco Bay Region MRP). The San Francisco Bay Region MRP is issued and overseen by the San Francisco RWQCB. Lafayette is a part of the Contra Costa Clean Water Program, which promotes public awareness of stormwater pollution prevention and supports innovative approaches to meet State and federal stormwater regulations.

New and redevelopment projects that create or replace 5,000 square feet or more of impervious surface area or 5,000 square feet or more of impervious surface area for regulated projects involving special land use categories (i.e., auto service, retail gasoline station, restaurant, and/or uncovered parking), are required to implement site design, source control, and low impact development (LID) based stormwater treatment controls to treat post-construction stormwater runoff. LID based treatment controls are intended to maintain or restore the site's natural hydrologic functions, maximizing opportunities for infiltration and evapotranspiration, and for using stormwater as a resource (e.g., rainwater harvesting for non-potable uses). The San Francisco Bay Region MRP also requires that stormwater treatment measures be properly installed, operated, and maintained.

The Contra Costa Clean Water Program developed the *Stormwater C.3 Guidebook*[1] to outline the requirements developments must implement to address stormwater quality during construction and post-construction to protect water quality consistent with the San Francisco Bay MRP. Regulated projects must prepare a Stormwater Control Plan in accordance with the Contra Costa Clean Water Program Stormwater C.3 Guidebook to detail the BMPs to be implemented as part of the project. Regulated projects must implement LID source control, site design, and treatment BMPs. LID BMPs mimic a project site's natural hydrology by using design measures that capture, filter, store, evaporate, detain, and infiltrate runoff rather than allowing runoff to flow directly to storm drains or receiving waters. LID employs principles such as preserving and recreating natural landscape features and minimizing impervious surfaces to create functional and appealing site drainage that treats stormwater as a resource, rather than a waste product. Source control BMPs are preventative measures that are implemented to prevent the introduction of pollutants into stormwater. Site design BMPs are stormwater management strategies that emphasize conservation and use of existing site features to reduce the amount of runoff and pollutant loading generated from a project site. Treatment BMPs are structural BMPs designed to treat and reduce pollutants in stormwater runoff prior to releasing it to receiving waters.

In addition, the MRP requires new development and redevelopment projects that create or replace 1 acre or more of impervious surface to manage development-related increases in peak runoff flow, volume, and duration, where such hydromodification is likely to cause increased erosion, generate silt pollutants, or cause other impacts on local rivers, streams, and creeks. Projects may be deemed exempt from these requirements if they do not meet the minimum size threshold, drain into tidally influenced areas or directly into San Francisco Bay, or drain into hardened channels, or if they are infill projects in sub-watersheds or catchment areas that are at least 65 percent impervious.

Local Regulations

City of Lafayette Municipal Code

Chapter 5-4, Stormwater Management and Discharge Control, of the City of Lafayette's municipal code requires projects covered by the San Francisco Bay Region MRP must prepare a stormwater

[1] Contra Costa Clean Water Program. 2024. Contra Costa Clean Water Program Stormwater C.3 Guidebook, Stormwater Quality Requirements for Development Applications, 9th Edition.

control plan that meets the criteria outlined in the most recent version of the Contra Costa Clean Water Program Stormwater C.3. Guidebook. Additionally, the City Municipal Code prohibits (1) the discharge of any substances other than storm water into storm drains and creeks, (2) illicit dumping of wastes into storm drains and creeks, and (3) the dumping of debris and refuse in and near waterways and their riparian areas.

Chapter 3-7, Grading, details the requirements of grading permits for projects that move more than 50 cubic yards of soil. The intent in requiring grading permits is, in part, to ensure that grading does not significantly increase erosion or flooding on or off site or cause impacts to water quality that cannot be mitigated.

IMPACT ANALYSIS

Construction

Construction activities would involve disturbance, grading, and excavation of soil, which could result in temporary erosion and movement of sediments into the storm drain system, particularly during precipitation events. However, the proposed project would comply with all applicable NPDES requirements to reduce impacts to water quality. Projects that disturb greater than 1 acre of soil are subject to the requirements of the Construction General Permit. The proposed project would disturb more than 1 acre of soil (1.14 acres); therefore, is required to comply with the requirements of the SWRCB's Construction General Permit.

The Construction General Permit requires the development and implementation of a Stormwater Pollution Prevention Plan (SWPPP) that includes specific Best Management Practices (BMPs) designed to prevent sediment and other pollutants from contacting stormwater and from moving off-site into receiving waters. Potential BMPs fall into several categories, including erosion control, sediment control, waste management and good housekeeping, and are intended to protect surface water quality by preventing the off-site migration of eroded soil and construction-related pollutants from the construction area. Examples of construction BMPs include: physical barriers to prevent erosion and sedimentation, construction of sedimentation basins, limitations on work periods during storm events, use of swales, protection of stockpiled materials, and a variety of other measures that would substantially reduce or prevent erosion or sedimentation from occurring during construction. Routine inspection of all BMPs is required under the provisions of the Construction General Permit. In addition, the SWPPP is required to contain a visual monitoring program and a chemical monitoring program for non-visible pollutants.

The SWPPP would include, at a minimum:

- Description of construction materials, practices, and equipment storage maintenance;
- List of pollutants likely to contact stormwater and site-specific erosion and sedimentation control practices;
- List of provisions to eliminate or reduce discharge of materials in stormwater;

- BMPs for fuel and equipment storage;
- Non-storm water management measures, such as installing specific discharge controls during activities such as paving operations and vehicle and equipment washing and fueling; and
- Commitment that equipment, materials, and workers would be available for rapid response to spills and/or emergencies. All corrective maintenance or BMPs would be performed as soon as possible, depending upon worker safety.

Post-construction requirements necessitate that construction sites be restored to pre-project hydrological conditions to ensure that the physical and biological integrity of aquatic ecosystems are sustained in their existing condition.

In addition to stormwater discharges, the Construction General Permit also covers other nonstorm water discharges including irrigation of vegetative erosion control measures, water to control dust, uncontaminated groundwater from dewatering, and other discharges not subject to a separate general NPDES permit adopted by the RWQCB. The discharge of non-storm water is authorized under the following conditions:

- The discharge does not cause or contribute to a violation of any water quality standard;
- The discharge does not violate any other provision of the General Permit;
- The discharge is not prohibited by the applicable Basin Plan;
- The discharger has included and implemented specific BMPs required by the General Permit to prevent or reduce the contact of the non-storm water discharge with construction materials or equipment;
- The discharge does not contain toxic constituents in toxic amounts or (other) significant quantities of pollutants;
- The discharge is monitored and meets the applicable numeric action levels; and
- The discharger reports the sampling information in the SWPPP Annual Report.

Furthermore, Chapter 3-7 of the City of Lafayette Municipal Code requires projects that move more than 50 cubic yards of soil to obtain a grading permit to ensure that grading does not significantly increase erosion or flooding on- or off-site or cause impacts to water quality that cannot be mitigated, and Chapter 5-4 of the City of Lafayette Municipal Code requires all construction projects to incorporate site-specific BMPs to address erosion and minimize the discharge and transport of pollutants during construction activities. Therefore, impacts to surface water quality during construction would be less than significant.

As described above, there are no defined groundwater basins in the project area. According to the Applicant the depth to groundwater at the project site is anticipated to be greater than 50 feet below ground surface (bgs). Excavation during construction would be to a maximum depth of 27 ft bgs.[2] Due to the depth of groundwater and the proposed depth of excavation, it is not anticipated that groundwater would be encountered during construction. Therefore, groundwater dewatering would not be required during construction and construction-related impacts to groundwater quality would be less than significant.

Operation

Pollutants of concern during operation of the proposed project may include suspended solids/sediments, nutrients, pesticides, heavy metals, oil and grease, toxic organic compounds, and trash and debris. The existing impervious surface area in the project site is 35,990 square feet (0.83 acre). The proposed project would include the replacement of most existing impervious surface area and development of new impervious surface area, resulting in a total of 36,630 square feet (0.84 acre) of impervious surface area post-development (a net increase of 640 square feet, or 0.01 acre). An increase in impervious surface area would increase the volume of runoff during a storm, which would potentially increase the amount of pollutants discharged into downstream receiving waters.

The proposed project is subject to the requirements of the San Francisco Bay Region MRP. In compliance with the San Francisco Bay Region MRP and the City Municipal Code, a stormwater control plan is currently being prepared for the proposed project in accordance with the Contra Costa Clean Water Program Stormwater C.3 Guidebook. The proposed project would be required to complete and implement a stormwater management and control plan to ensure that the stormwater capacity of the existing storm drain system would not be exceeded. Furthermore, the stormwater control plan must include LID design measures to address potential water quality impacts by preserving and recreating natural landscape features, minimizing impervious surfaces, and using stormwater as a resource, rather than a waste product, to the greatest extent practicable.

In the existing condition, stormwater sheet flows across the project site, generally from north to south, and into an existing storm drain on Oak Hill Road. In the post-project condition, LID design measures would include dividing the proposed project into ten drainage management areas (DMA) with appropriately sized self-treating landscape areas, flow-through planters, and bioretention basins. These measures would be designed to meet the requirements of the San Francisco Bay Region MRP, City Municipal Code, and Stormwater C.3 Guidebook. Once collected and treated, stormwater runoff would be directed into the municipal storm drain system through a connection in Oak Hill Road. The City's municipal storm drain outfalls to Lafayette Creek, which drains to Las Trampas Creek, then Walnut Creek and eventually Suisun Bay. To address potential water contaminants, the project is required to comply with applicable federal, State, and local water quality regulations. Due to the small increase in impervious surface area (640 sf) the proposed project would not exceed the capacity of the existing storm drain system.

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[2] Diamond Construction. Stone, Jeff, Partner. July 19, 2022. Personal Communication.

Because the proposed project would remove and/or replace less than an acre of impervious surface area it is not subject to hydromodification requirements of the San Francisco Bay MRP.

Compliance with the requirements of the San Francisco Bay Region MRP, City Municipal Code, and the Contra Costa Clean Water Program Stormwater C.3 Guidebook, including incorporation of operational BMPs to target pollutants of concern, would ensure that impacts related to waste discharge requirements, water quality standards, and degradation of water quality during project operation would be less than significant.

Project operation would not require groundwater extraction. Water usage for the proposed project would primarily be associated with residential uses, irrigation for landscaping, and fire suppression systems. Lafayette is not dependent on groundwater as its main water supply. Therefore, the proposed project would not generate additional demand for water that would affect groundwater supplies. In addition, Lafayette is not in a defined groundwater basin as determined by the Department of Water Resources.[3] Therefore, the small increase in impervious surface area would not impact groundwater recharge.

As noted above, Lafayette is not in a defined groundwater basin as identified by the Department of Water Resources. Because there is not an adopted Groundwater Sustainability Plan applicable to the project site, the project would not conflict with or obstruct the implementation of a sustainable groundwater management plan. Even though there is not a defined groundwater basin underlying the project area, perched groundwater may still be present. As discussed above, the proposed project would result in a net increase of impervious surface area of 640 square feet. An increase in impervious surface area decreases infiltration, which can decrease the amount of water that is able to recharge the perched groundwater. However, the small increase in impervious surface area would not substantially decrease any infiltration that currently may occur on the project site. Therefore, the project would not significantly decrease groundwater supplies or interfere with groundwater recharge.

According to Federal Emergency Management Agency Flood Insurance Rate Map No. 06013C0269F (June 16, 2009), the project site is not within a 100-year floodplain. Specifically, the project site is within Zone X, an area of minimal flood hazard (outside the 500-year floodplain). According to the Department of Conservation Tsunami Hazard Area Maps, the project site is not within a Hazard Area. Therefore, there is no risk of tsunami or seiche on the project site. No project-related impacts associated with flood flows or release of pollutants from inundation would occur.

Overall, compliance with the requirements of the Construction General Permit, San Francisco Bay MRP and Contra Costa Clean Water Program, and the Lafayette Municipal Code chapters 5-4 and 3-7 as described above would ensure that the proposed project would not result in significant impacts associated with hydrology or water quality.

Attachment: Figures 1 and 2

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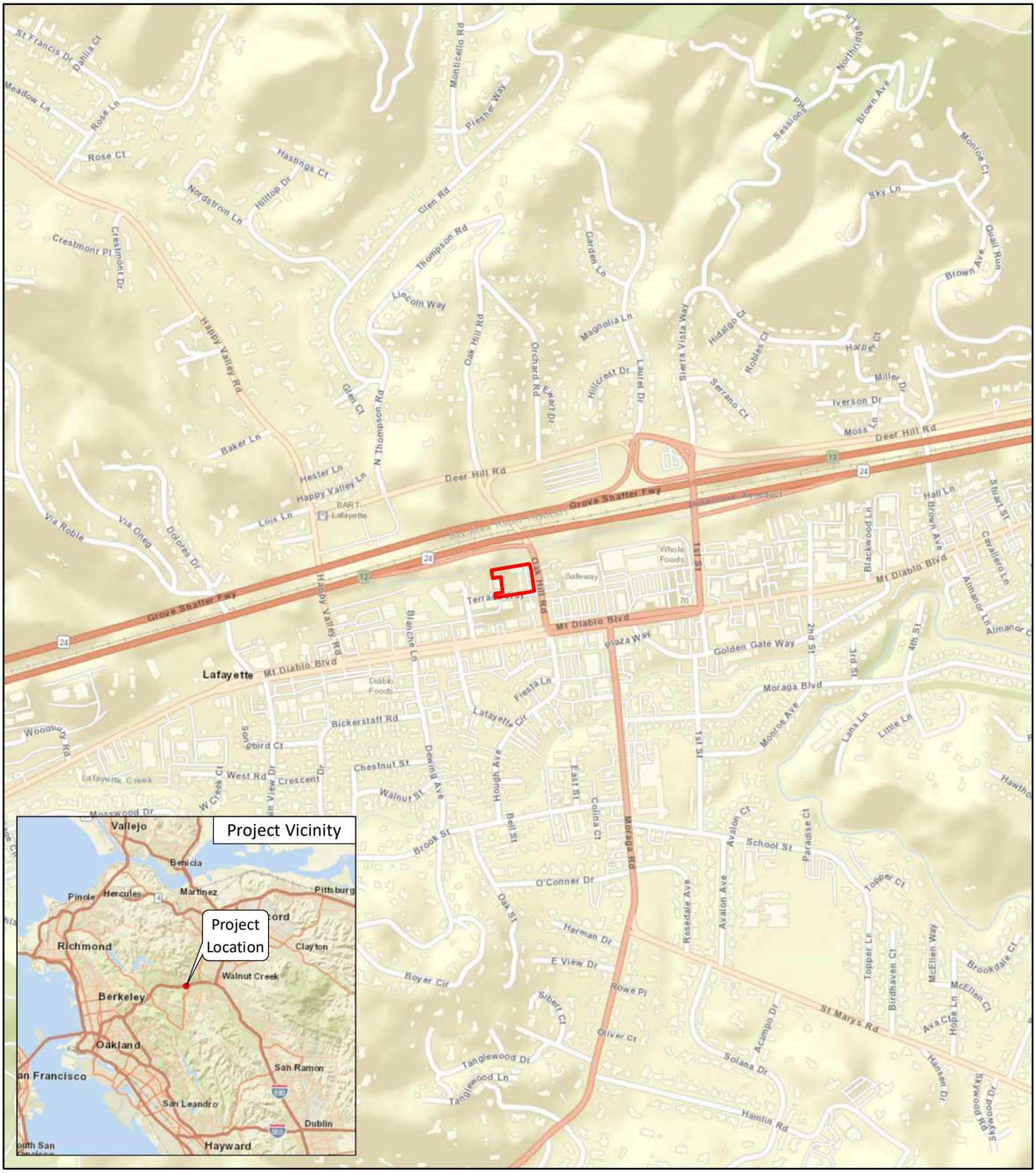
[3] Department of Water Resources. 2020. Statewide Map of Current SGMA Basin Prioritization.



LSA

LEGEND

Project Area

FIGURE 1

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Oak Hill Project

Lafayette, Contra Costa County, California

Regional Location

SOURCE: Esri World Street Map (2022)

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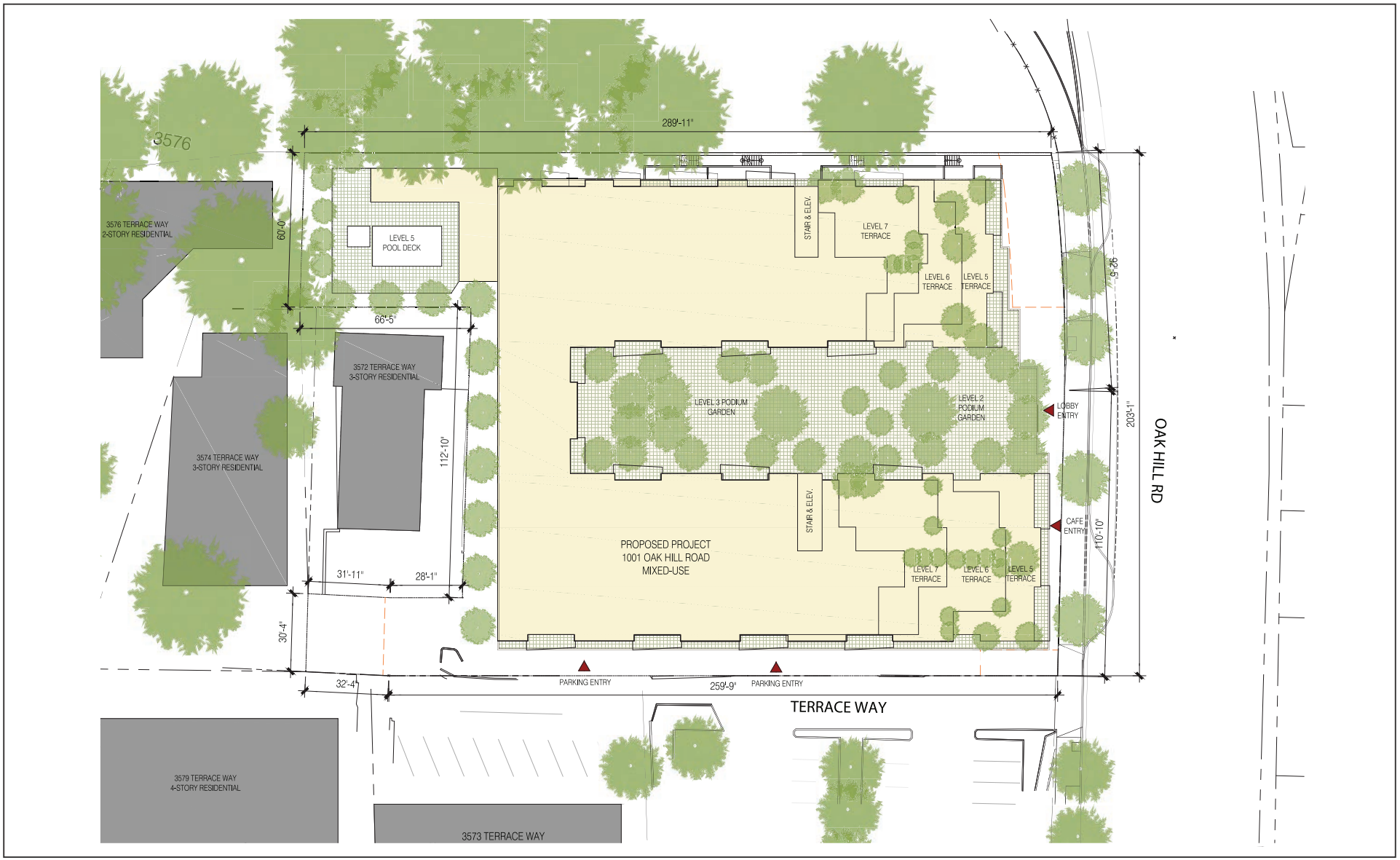

LSA

FIGURE 2

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SOURCE: Trachtenberg Architects

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Oak Hill Project
Site Plan

TRANSPORTATION IMPACT ANALYSIS

OAK HILL APARTMENTS PROJECT

LAFAYETTE, CALIFORNIA

This Transportation Impact Analysis has been prepared under the supervision of
Ambarish Mukherjee, P.E.

LSA

April 2025

TRANSPORTATION IMPACT ANALYSIS

OAK HILL APARTMENTS PROJECT

LAFAYETTE, CALIFORNIA

Submitted to:

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Project No. 20252276

LSA

April 2025

EXECUTIVE SUMMARY

LSA has prepared this Transportation Impact Analysis (TIA) to identify the traffic impacts resulting from the development of the proposed Oak Hill Apartments Project in Lafayette, California. LSA has prepared this analysis at the direction of the City of Lafayette Transportation Program Manager.

The proposed project is at 1001 Oak Hill Road in Lafayette, California. The proposed project includes the demolition of 9,070 square feet (sf) of existing retail uses and the construction of 90 multifamily residential units and 2,000 sf of commercial use.

The project site is bounded by State Route 24 to the north, commercial uses to the south and west, and Oak Hill Road to the east. Access to the project site will be provided via one existing full-access driveway on Oak Hill Road.

This TIA evaluates existing roadways, pedestrian and bicycle circulation, and transit services in the project vicinity.

Based on the results of this TIA, the proposed project would not adversely affect the regional and local circulation and access for any mode of transportation.

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APPENDIX

A: CITY OF LAFAYETTE EXISTING AND PROPOSED PEDESTRIAN FACILITIES AND BIKEWAYS
B: OAK HILL ROAD GAP SURVEY

LIST OF ABBREVIATIONS AND ACRONYMS

AB	Assembly Bill
BART	Bay Area Rapid Transit
CA MUTCD	*California Manual on Uniform Traffic Control Devices*
Caltrans	California Department of Transportation
City	City of Lafayette
ft	feet
I-580	Interstate 580
I-680	Interstate 680
I-980	Interstate 980
ITE	Institute of Transportation Engineers
mph	miles per hour
project	Oak Hill Apartments Project
sf	square feet
SR-24	State Route 24
TIA	Transportation Impact Analysis

TRANSPORTATION IMPACT ANALYSIS
OAK HILL APARTMENTS PROJECT

INTRODUCTION

The purpose of this Transportation Impact Analysis (TIA) is to identify the potential circulation impacts associated with the development of the proposed Oak Hill Apartments Project (project) at 1001 Oak Hill Road in Lafayette, California.

LSA prepared the TIA based on direction from the City of Lafayette (City) Transportation Program Manager.

This TIA evaluates existing roadways, pedestrian and bicycle circulation, and transit services in the project vicinity.

PROJECT DESCRIPTION

The proposed project includes the demolition of 9,070 square feet (sf) of existing retail uses and the construction of 90 multifamily residential units and 2,000 sf of commercial use.

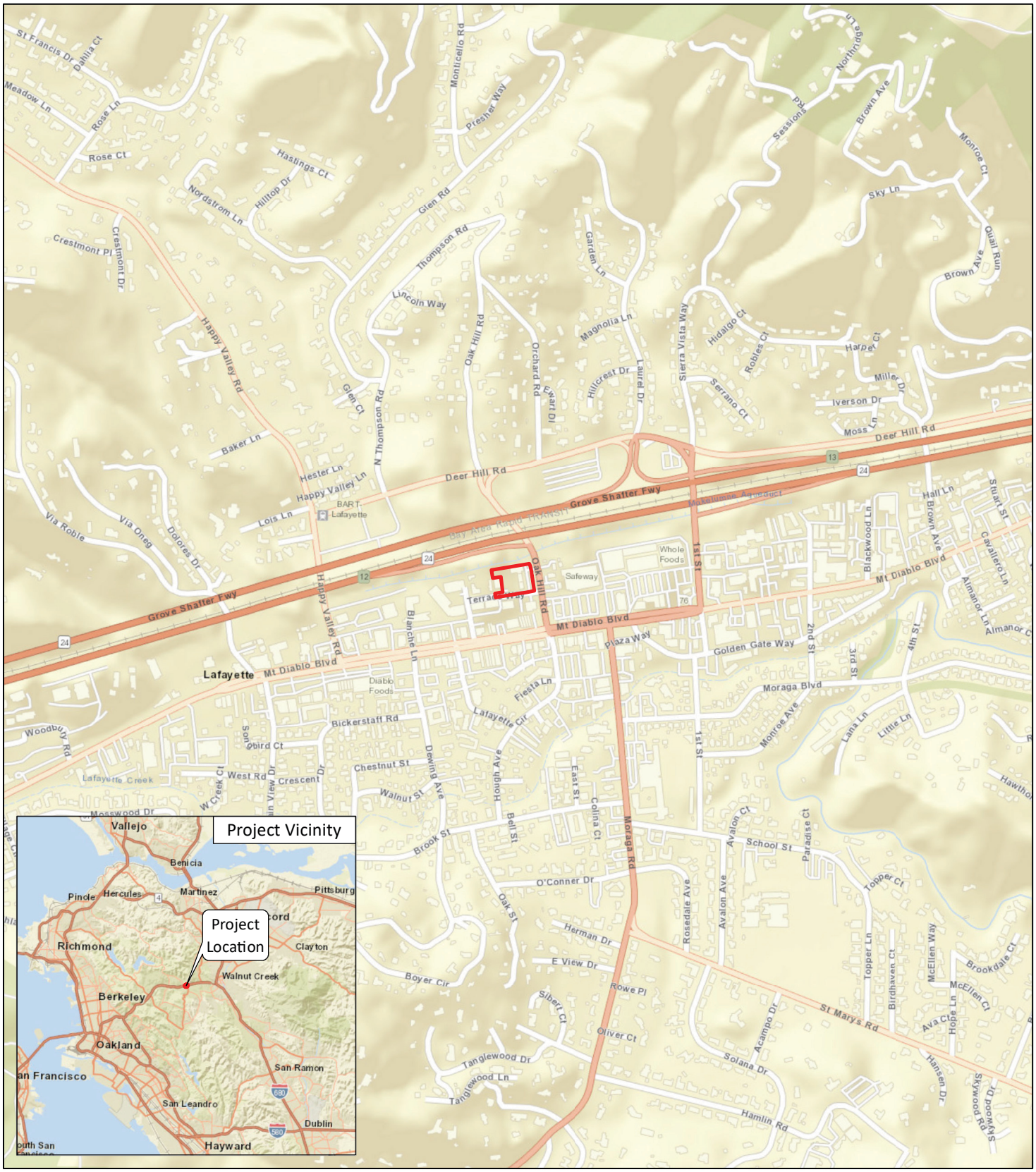
The project site is bounded by State Route 24 (SR-24) to the north, commercial uses to the south and west, and Oak Hill Road to the east. Access to the project site will be provided via one existing full-access driveway on Oak Hill Road. Figure 1 shows the location of the project site. Figure 2 shows the site plan for the proposed project.

EXISTING CONDITIONS

Roadways

Key roadways in the vicinity of the proposed project are as follows:

- **Oak Hill Road** is classified as an Arterial in the City of Lafayette General Plan Circulation Element (2012). It is a four-lane, undivided, north-south roadway from Deer Hill Road to Mount Diablo Boulevard. It is a Local Street north of Deer Hill Road. Oak Hill Road is along the eastern boundary of the project site and provides direct access to the proposed project via Terrace Way. Oak Hill Road is the central and primary Lafayette exit from eastbound SR-24 for motorists traveling to points south of Mount Diablo Boulevard, including the Town of Moraga. The SR-24 eastbound off-ramp at Oak Hill Road is just north of the project site and is stop-controlled for exiting vehicles only (there is no stop sign or traffic signal for northbound or southbound vehicles on Oak Hill Road at this SR-24 off-ramp). In the project vicinity, the posted speed limit is 25 miles per hour (mph). Pedestrian sidewalks are provided on both sides of Oak Hill Road. On-street metered parking is provided on the east side of the street.



LSA

LEGEND

Project Area

FIGURE 1

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SOURCE: Esri World Street Map (2022)

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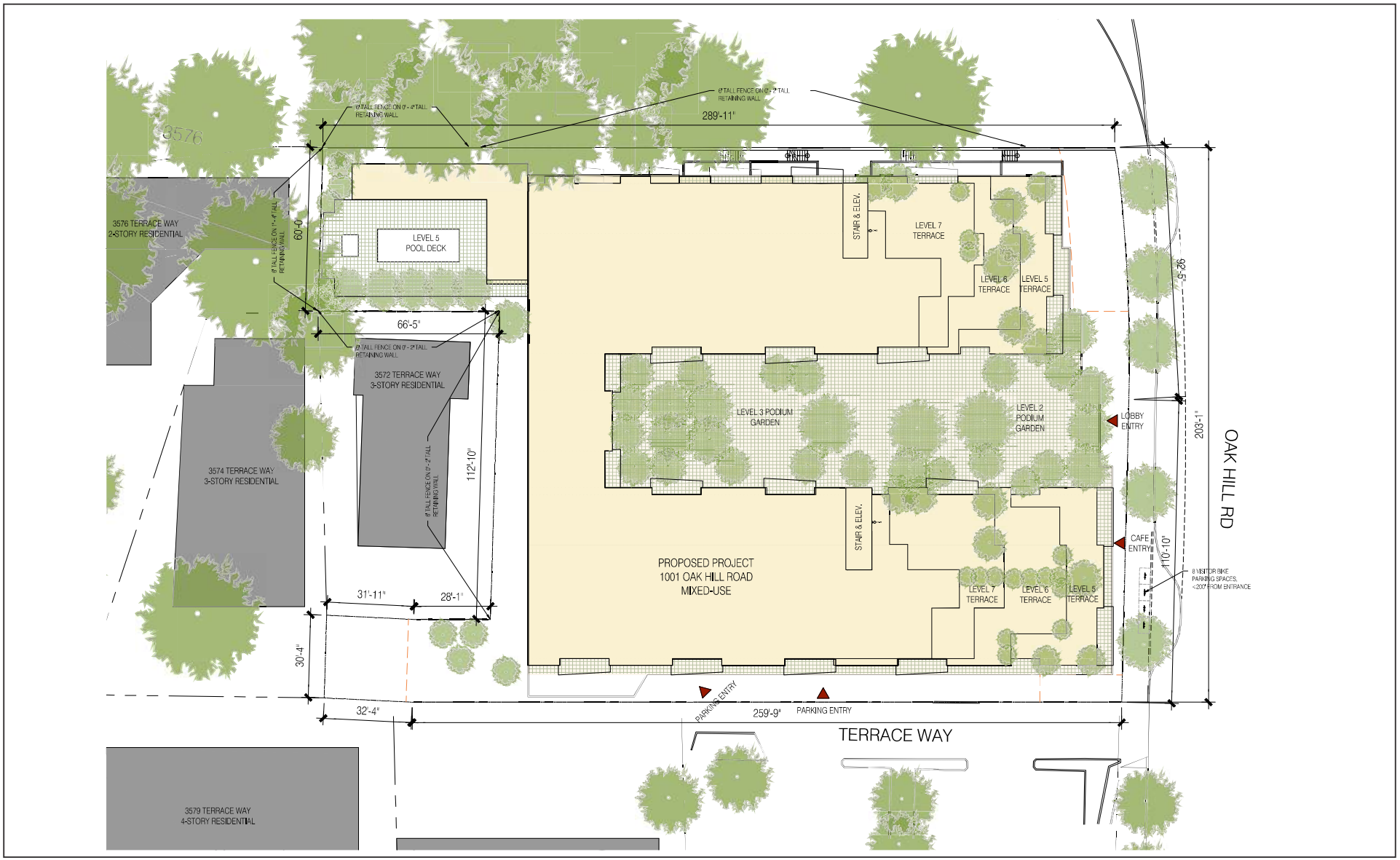
Oak Hill Apartments Project

Regional Location



LSA

FIGURE 2

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SOURCE: Trachtenberg Architects

Oak Hill Apartments Project
Site Plan

P:\2025\20252276 DMD 1001 Oak Hill Road Lafayette\Traffic\g\Site Plan.ai (3/27/2025)

- **Mount Diablo Boulevard** is classified as an Arterial in the City of Lafayette General Plan Circulation Element. It is a four-lane, divided, east-west roadway that extends from Acalanes Road to Pleasant Hill Road. Mount Diablo Boulevard is south of the project site. In the project vicinity, the posted speed limit is 25 mph. Pedestrian sidewalks are provided on both sides of Mount Diablo Boulevard. On-street metered parking is provided on both sides of the street.

- **Deer Hill Road** is classified as an Arterial in the City of Lafayette General Plan Circulation Element. It extends from Happy Valley Road to Pleasant Hill Road. Deer Hill Road is a four-lane, divided, east-west roadway from Happy Valley Road to First Street. It is a two-lane, divided, east-west roadway from First Street to Pleasant Hill Road. Deer Hill Road is north of the project site. Deer Hill Road provides vehicular access to many Bay Area Rapid Transit (BART) parking lots and westbound SR-24. The posted speed limit is 35 mph. Pedestrian sidewalks and Class II bicycle lanes are provided on both sides of the street. On-street parking is prohibited on both sides of the street.

- **Moraga Road** is classified as an Arterial in the City of Lafayette General Plan Circulation Element. It is a four-lane, undivided, north-south roadway from Mount Diablo Boulevard to Saint Mary's Road. It is a two-lane, undivided, north-south roadway from Saint Mary's Road to the southern city limit. Moraga Road serves as the primary access between SR-24 and the Town of Moraga. It is south and east of the project site. In the project vicinity, the posted speed limit is 25 mph. Pedestrian sidewalks are provided on both sides of Moraga Road. On-street parking is permitted in select locations on the west side of the street.

- **First Street** is classified as an Arterial in the City of Lafayette General Plan Circulation Element between Deer Hill Road and Mount Diablo Boulevard. Along this segment, it is a four-lane, undivided, north-south roadway with a 25 mph speed limit, pedestrian sidewalks on both sides of the street, and no on-street parking. First Street serves as a continuation of the primary access between eastbound SR-24 and the Town of Moraga. The SR-24 eastbound on-ramp at First Street is uncontrolled (there is no stop sign or traffic signal on First Street at this SR-24 on-ramp). South of Mount Diablo Boulevard, First Street is a two-lane, undivided, north-south roadway with a 25 mph speed limit, a pedestrian sidewalk on the east side of the street, and on-street parking in select locations. On-street parking is permitted in select locations on both sides of the street.

- **SR-24** is an eight-lane, east-west California State Highway that runs from the Interstate 580/ Interstate 980 (I-580/I-980) interchange in Oakland to Interstate 680 (I-680) in Walnut Creek. SR-24 is north of the project site.

All other roadways in the project vicinity (e.g., Terrace Way, Lafayette Circle, Golden Gate Way, Dewing Avenue, and Happy Valley Road) are Collector Streets (i.e., streets intended to move traffic between Arterials and Local Streets, generally providing direct access to properties) or Local Streets (i.e., streets providing direct access to properties that are often designed to discourage through traffic). Terrace Way provides vehicular access to the project site.

Signalized Intersections

The following signalized intersections (with pedestrian crosswalks) are in proximity to the project site:

- Happy Valley Road/Mount Diablo Boulevard
- Dewing Avenue/Mount Diablo Boulevard
- Lafayette Circle/Mount Diablo Boulevard
- Oak Hill Road/Mount Diablo Boulevard
- Moraga Road/Mount Diablo Boulevard
- SR-24 westbound ramps/Deer Hill Road
- First Street/Deer Hill Road
- First Street/Mount Diablo Boulevard

Parking

Although the proposed project is subject to Assembly Bill (AB) 97, which is a California State law prohibiting a public agency (e.g., City) from imposing or enforcing any minimum automobile parking requirement on a residential, commercial, or other development project within one-half mile of a major transit stop (e.g., Lafayette BART Station), the proposed project will provide adequate on-site parking within a parking structure to meet the City's Municipal Code parking requirements (e.g., 1 resident space per one-bedroom unit, 1.2 resident spaces per two-bedroom unit, 1.5 resident spaces per three- or more bedroom unit, 1 guest space for every five units, and 3.3 general commercial spaces per 1,000 sf). In addition, on-street parking exists in select locations in the project vicinity.

Pedestrian and Bicycle Facilities

Sidewalks currently exist in the project vicinity on both sides of the following streets:

- Oak Hill Road
- Mount Diablo Boulevard
- Deer Hill Road
- Moraga Road
- First Street north of Mount Diablo Boulevard
    - Although sidewalks exist on both sides of First Street south of Mount Diablo Boulevard, there is a sidewalk gap on the west side of First Street between Mount Diablo Boulevard and Golden Gate Way.
- Lafayette Circle north of Mount Diablo Boulevard
    - Although a sidewalk spans the outer edge of Lafayette Circle south of Mount Diablo Boulevard, there are intermittent sidewalk gaps along its inner edge.

- Golden Gate Way
    - Although sidewalks exist on both sides of Golden Gate Way, there is an approximately 95-foot (ft) sidewalk gap on the east side between Mount Diablo Boulevard and the 76 Gas Station at 3523 Mount Diablo Boulevard.
- Dewing Avenue
- Happy Valley Road

In the project vicinity, existing bicycle facilities are provided at the following locations:

- **Lafayette BART Station:** Class I bicycle path to/from Lafayette Circle
    - There is no Class I bicycle path from Lafayette Circle to Mount Diablo Boulevard.
- **Mount Diablo Boulevard east of First Street:** Class II bicycles lanes on both sides of the street
- **Mount Diablo Boulevard west of Mountain View Drive:** Class II bicycle lanes on both sides of the street
- **First Street between Golden Gateway and School Street:** Class I bicycle path on the east side of the street

Transit Services

The project site is approximately 0.3 mile east of the Lafayette BART Station at 3601 Deer Hill Road. The station consists of one island platform in the center median of SR-24 just south of the Lafayette Hillside Memorial for the Yellow Line. The Yellow Line provides transportation between Antioch and San Francisco International Airport.

County Connection bus stops are approximately 0.1 mile from the project site along the north and south sides of Mount Diablo Boulevard between Oak Hill Road and Moraga Road for the following routes:

- Route 6 (Lafayette BART Station to Saint Mary's College to Moraga to Orinda BART Station)
- Route 606 (Orinda BART Station to Miramonte High School to Orinda Intermediate School to Lafayette BART Station)
- Route 625 (Lafayette BART Station to Happy Valley Road to Acalanes High School)
- Route 626 (Lafayette BART Station to Stanley Middle School to Saint Mary's College)

PROJECT CONDITIONS

Trip Generation

LSA examined the trip generation of the proposed project by applying the trip generation rates for Land Use Code 221 (Multifamily Housing – Mid-Rise) and Land Use Code 822 (Strip Retail Plaza) from the Institute of Transportation Engineers (ITE) 2021 *Trip Generation* Manual, 11th Edition.

The ITE is an international membership association of transportation professionals, including transportation engineers, educators, and researchers. The ITE develops technical resources, including standards and recommended practices for traffic and parking. The ITE *Trip Generation* Manual is a locally accepted, nationally recognized, and industry standard resource for planners, zoning boards, and others for the calculation of trip generation for land use developments. The ITE *Trip Generation* Manual is based on thousands of surveys and years of data for various land use types (including multifamily residential and retail uses) throughout the State and the Country.

It should be noted that, subsequent to publication of the 10th Edition (2017) *Trip Generation* Manual, new trip generation surveys and data were completed and incorporated into the 11th Edition *Trip Generation* Manual. However, these new surveys were conducted prior to the COVID-19 pandemic and the resultant reduction in driving and vehicle trips for all land use types (including residential and retail uses). Therefore, the trip generation for the proposed project reflects typical (non-pandemic) traffic conditions. Table A summarizes the project trip generation using the ITE trip rates.

Table A: Project Trip Generation

Land Use	Size	Unit	Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Trip Rates[1]									
Multifamily Mid-Rise	--	du	4.54	0.09	0.28	0.37	0.24	0.15	0.39
Strip Retail Plaza	--	tsf	54.45	1.42	0.94	2.36	3.30	3.29	6.59
Project Trip Generation									
Multifamily Mid-Rise	90	du	409	8	25	33	22	13	35
Strip Retail Plaza	2.000	tsf	109	3	2	5	7	6	13
Total			518	11	27	38	29	19	48
Existing Trip Generation									
Strip Retail Plaza	9.070	tsf	494	13	8	21	30	30	60
Net Trips (Project - Existing)			**24**	**(2)**	**19**	**17**	**(1)**	**(11)**	**(12)**

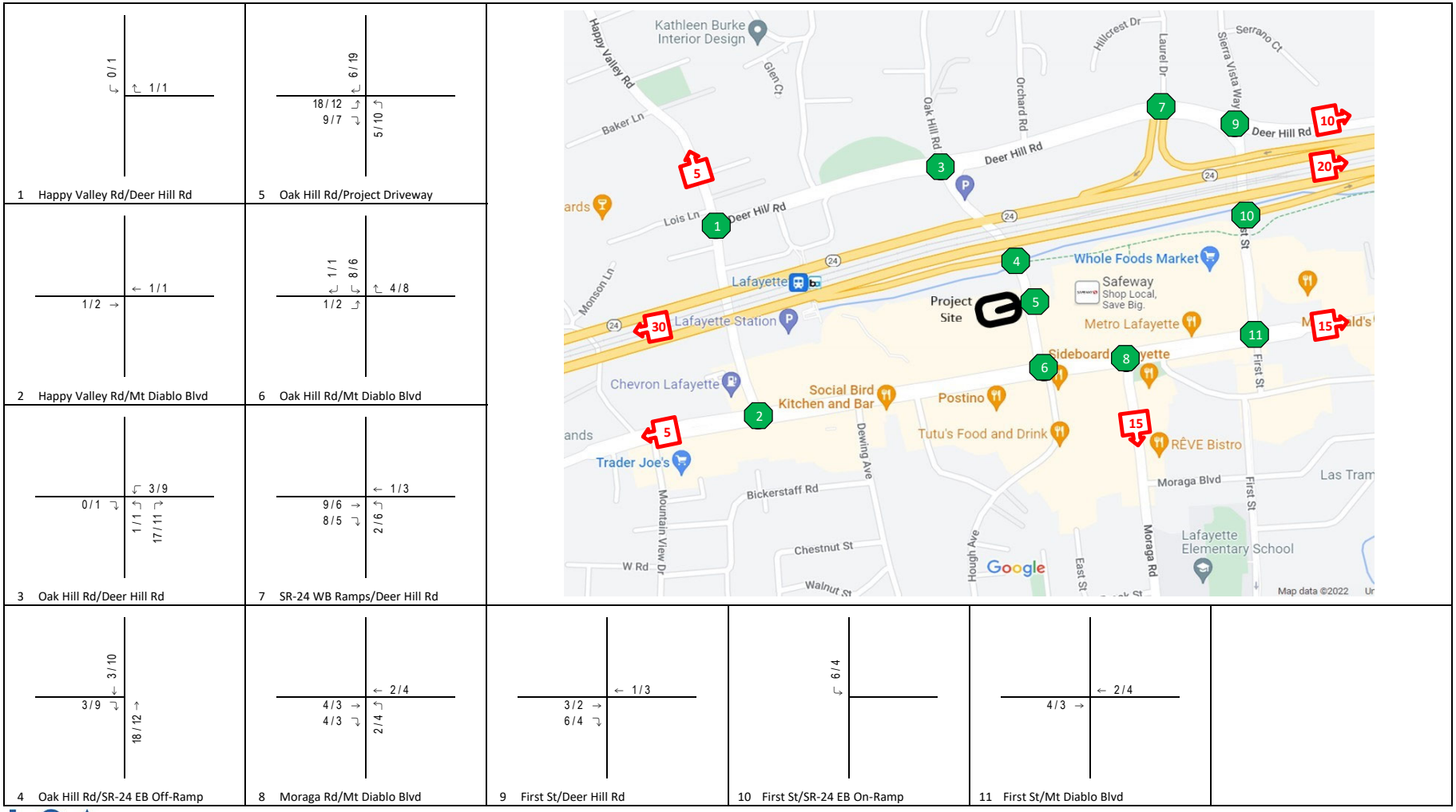
Source: Compiled by LSA (2022)

[1] Trip rates from the Institute of Transportation Engineers (ITE) *Trip Generation Manual*, 11th Edition (2021).
Land Use Code 221 – Multifamily Housing (Mid-Rise) – between 4 and 10 levels
Land Use Code 822 – Strip Retail Plaza (<40k) – less than 40,000 square feet of gross leasable area

du = dwelling unit
tsf = thousand square feet

As Table A indicates, the proposed project could generate approximately 518 daily trips, including 38 trips in the a.m. peak hour (11 inbound and 27 outbound) and 48 trips in the p.m. peak hour (29 inbound and 19 outbound).

Additionally, Table A illustrates the existing site trip generation. The existing 9,070 sf of retail uses generate approximately 494 daily trips, including 21 trips in the a.m. peak hour (13 inbound and 8 outbound) and 60 trips in the p.m. peak hour (30 inbound and 30 outbound).



LSA

LEGEND

XXX / YYY	AM / PM Volume
#	Study Area Intersection
#	Trip Distribution Percentage

FIGURE 3

Oak Hill Apartments Project

Project Trip Distribution and Assignment

The proposed project is anticipated to generate a net increase of 24 daily trips, including a net addition of 17 a.m. peak-hour trips (-2 inbound and +19 outbound) and a net reduction of 12 p.m. peak-hour trips (-1 inbound and -11 outbound). However, to present a conservative estimate of trip generation (and distribution and assignment) for the proposed project, no trip reductions were applied for the existing uses. In addition, no trip reductions were applied for the anticipated pedestrian interactions between the proposed project and the high-quality transit, commercial, institutional, and educational land uses adjacent to the project site. Therefore, the proposed project trips are expected to be lower.

Trip Distribution and Assignment

Trip distribution for the proposed project was based on the location of other land uses and transportation facilities. Figure 3 shows the project trip distribution and assignment. As illustrated on this figure, approximately 5 percent of the trips would be north, 15 percent would be south, approximately 45 would be east, and 35 percent would be west.

SAFETY ANALYSIS

Pedestrian, Bicycle, and Transit

Several existing pedestrian, bicycle, and transit facilities are in close proximity to the project site that allow and promote alternative modes of transportation. Project residents and guests will be afforded the opportunity to safely walk, bike, and utilize transit to their preferred commercial, residential, employment, and recreational destinations via Oak Hill Road, Mount Diablo Boulevard, and the surrounding facilities.

As part of the Feasibility & Options Study for a Pedestrian & Bicycle Pathway Along the EBMUD Aqueduct ROW (Alta Planning + Design, February 2012), the City explored the feasibility of a Class I bikeway/Americans with Disabilities Act-accessible pedestrian and bicycle facility along the East Bay Municipal Utility District (EBMUD) Aqueduct right-of-way (ROW) directly north of the project site. After evaluating several alternatives, the preferred pathway assumes a 10- to 12-foot paved width, 2-foot clear shoulders, pathway lighting at roadway crossings, and site landscaping and amenities as appropriate to the land use context for each of the following four pathway segments:

- **Pathway Segment 1:** Risa Road to the Lafayette BART Station
  - Includes Risa Road, Private Drive, Dolores Drive, and Happy Valley Road crossing.
- **Pathway Segment 2:** Lafayette BART Station to Oak Hill Road (just north of the project site)
  - Includes Oak Hill Road crossing.
- **Pathway Segment 3:** Oak Hill Road to First Street
  - Includes First Street crossing.
- **Pathway Segment 4:** First Street to Brown Avenue
  - Includes Oak Hill Road crossing.

The preferred alternative would provide a new signalized crossing at Oak Hill Road/SR-24 eastbound off-ramp (connecting Pathway Segments 1 and 2). This would include signalization of the Oak Hill Road/SR-24 eastbound off-ramp intersection, installation of curb extensions at pathway crossings, installation of high-visibility crosswalks and advanced stop bars, and widening the sidewalk on the east side of Oak Hill Road from the pathway to Mount Diablo Boulevard.

According to the City's Bikeways Master Plan (2006), the following bicycle facilities are proposed for the project vicinity:

- Sharrows along Mount Diablo Boulevard between Mountain View Drive and Moraga Road
- Class III bicycle routes along Happy Valley Road and Moraga Road
- Bike boulevards along Lafayette Circle, Dewing Avenue, and Golden Gate Way

These new pedestrian and bicycle facilities would provide additional opportunities in the future for access and circulation to local and regional destinations. Appendix A depicts the locations of the City's existing and proposed pedestrian and bicycle facilities.

Vehicle

Sight Distance Analysis

A sight distance analysis was conducted along Oak Hill Road at the proposed vehicular access point to the project, as well as along Terrace Way at the proposed parking structure entry and exit. The purpose of the sight distance analysis at the project driveway on Oak Hill Road and at the parking structure entry and exit on Terrace Way is to ensure driver visibility and safety. In the project vicinity, the speed limit along Oak Hill Road is 25 mph. However, based on a 2015 speed survey from the City's Engineering and Traffic Survey, the 85th percentile speed along Oak Hill Road is 33 mph. As such, the Oak Hill Road sight distance analysis is based on 35 mph (rounded up from 33 mph). For Terrace Way (a private street), the posted speed limit is 15 mph.

According to Table 6C-2 of the California Department of Transportation (Caltrans) *California Manual on Uniform Traffic Control Devices* (CA MUTCD), 2014 Edition (Revision 8), the stopping sight distance for roadways with a speed limit of 35 mph is 250 ft, and the stopping sight distance for roadways with a speed limit of 20 mph is 115 ft. While Terrace Way has a posted speed limit of 15 mph, this is not a standard design speed per the CA MUTCD Table 6C-2. Therefore, a conservative design speed of 20 mph was applied for the sight distance analysis in accordance with CA MUTCD guidance. Figures 4 and 5 illustrate the sight distances at the project driveway and the parking structure entry and exit, respectively.

There are no sight distance obstructions at the project driveway or the parking structure entry and exit. As shown on Figure 4, the sight distances at the project driveway exceed 250 ft (left and right of the driveway), enabling left and right turns at the stop without any visual obstruction. As shown on Figure 5, the sight distances at the parking structure entry and exit exceed 115 ft (left and right of the entry and exit). The bio-retention basin located uphill from the parking structure will be designed to ensure that it does not impede sight distance lines. Therefore, the project driveway and the parking structure entry and exit meet the minimum sight distance requirements specified in the CA MUTCD.

LSA

LEGEND

Sight Distance Triangle

FIGURE 4

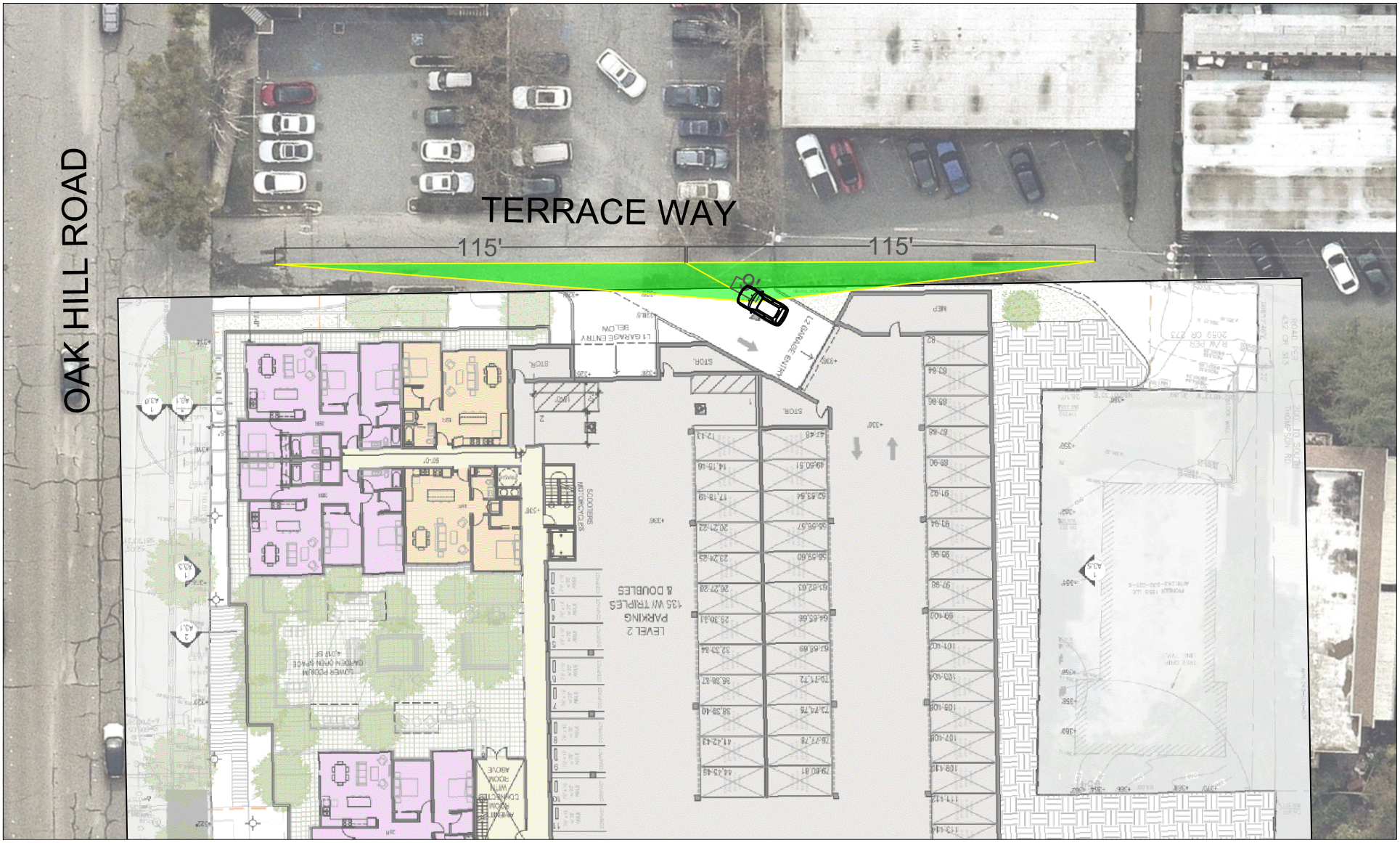
0 35 70
FEET

SOURCE: Trachtenberg Architects

P:\2025\20252276 DMD 1001 Oak Hill Road Lafayette\Traffic\g\Sight_Distance.dwg (3/27/2025)

Oak Hill Apartments Project

Project Driveway Sight Distances



LSA

FIGURE 5

SOURCE: Trachtenberg Architects

P:\2025\20252276 DMD 1001 Oak Hill Road Lafayette\Traffic\g\Sight_Distance.dwg (4/7/2025)

Oak Hill Apartments Project

Parking Structure Entry and Exit Sight Distances

Gap Analysis

On Tuesday, September 20, 2022, Counts Unlimited conducted a gap survey to determine whether a driver has adequate time to safely turn into the project driveway on Oak Hill Road. Counts Unlimited timed the gaps between each vehicle traveling southbound on Oak Hill Road from 7:00 a.m. to 9:00 a.m., and from 4:00 p.m. to 6:00 p.m. The Caltrans 2018 *Highway Design Manual*, 6th Edition, states that 7.5 seconds are required for a driver to complete the necessary maneuver. The data were organized into observed gaps per 5-minute increments with the number of gaps over 7.5 seconds highlighted and summed. The Oak Hill Road gap survey is provided in Appendix B.

According to the Oak Hill Road gap survey, there were a total of 129 gaps during the a.m. peak hour (7:55 a.m. to 8:55 a.m.), with an average of 12 gaps every 5 minutes. The average gap length during the a.m. peak hour was 17.2 seconds. During the p.m. peak hour (4:15 p.m. to 5:15 p.m.), there were a total of 142 gaps, with an average of 13 gaps every 5 minutes. The average gap length during the p.m. peak hour was 13.4 seconds. The high number of gaps during both peak hours would allow the 5 a.m. and 10 p.m. peak-hour northbound left-turning vehicles to safely cross the two southbound lanes on Oak Hill Road into the project driveway.

Given the high number of gaps and average gap lengths between each vehicle traveling southbound on Oak Hill Road, there are similar gaps between vehicles traveling northbound on Oak Hill Road. As such, there are adequate gaps to allow the 18 a.m. and 12 p.m. peak-hour eastbound left-turning vehicles to exit the project driveway onto Oak Hill Road.

Recommendations

Based on the existing pedestrian, bicycle, and transit features and amenities in the project vicinity, project residents and guests will have adequate access and circulation for all transportation modes. In addition, based on the existing sight distances and available gaps along Oak Hill Road, as well as the sight distances along Terrace Way, motorists will have the ability to safely turn in and out of the project driveway and the parking structure. As such, the proposed project would not adversely affect the regional and local circulation and access for any mode of transportation. Therefore, transportation improvements are neither required nor recommended for the proposed project.

CONCLUSIONS

Based on the results of this analysis, implementation of the Oak Hill Apartments Project would not result in any adverse effects to the surrounding roadway system. The proposed project considers all modes of transportation and does not conflict with any plans, ordinances, policies, or programs regarding public transit, bicycle, or pedestrian facilities. Transit would not be affected. The proposed project would provide pedestrian/bicycle connectivity to/from the local circulation network while ensuring the safety of motorists, pedestrians, and bicyclists. Based on the project site plan and the existing conditions of the surrounding roadway network, adequate access and circulation would be provided for the proposed project. Motorists will be able to safely turn in and out of the project driveway along Oak Hill Road and the parking structure along Terrace Way. Therefore, the proposed project is presumed to have a less than significant transportation impact.

REFERENCES

Alta Planning + Design. 2012. Feasibility & Options Study for a Pedestrian & Bicycle Pathway Along the EBMUD Aqueduct ROW. February.

California Department of Transportation (Caltrans). 2014. *California Manual on Uniform Traffic Control Devices*, Revision 8.

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_____. 2020. Title 6 – Planning and Land Use, Chapter 6-604 – Parking Ratios and Requirements. August

Institute of Transportation Engineers (ITE). 2021. *Trip Generation Manual*, 11th Edition.

APPENDIX A

CITY OF LAFAYETTE EXISTING AND PROPOSED PEDESTRIAN FACILITIES AND BIKEWAYS

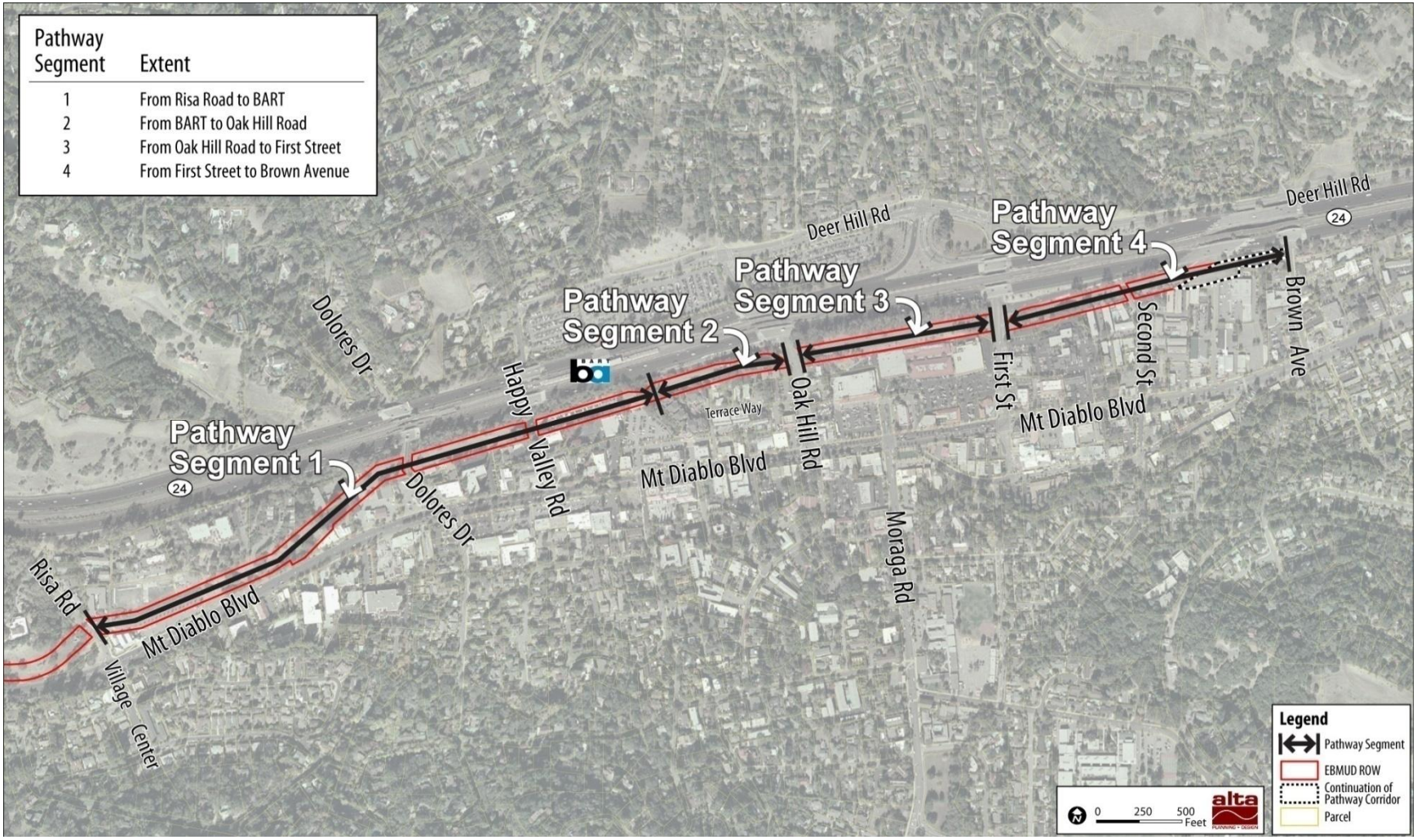

Figure 5-1: Pathway Segments

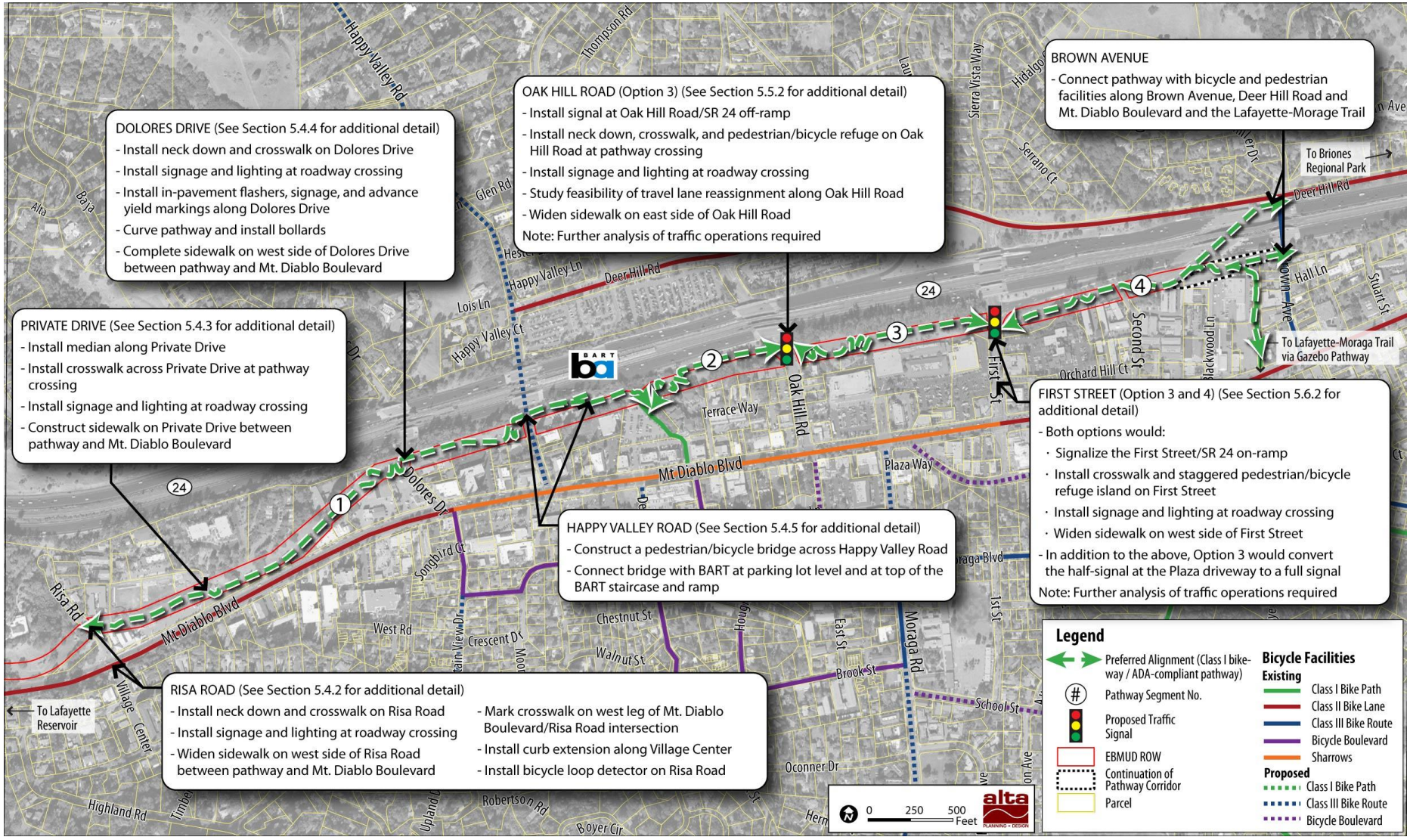
DOLORES DRIVE (See Section 5.4.4 for additional detail)
- Install neck down and crosswalk on Dolores Drive
- Install signage and lighting at roadway crossing
- Install in-pavement flashers, signage, and advance yield markings along Dolores Drive
- Curve pathway and install bollards
- Complete sidewalk on west side of Dolores Drive between pathway and Mt. Diablo Boulevard
OAK HILL ROAD (Option 3) (See Section 5.5.2 for additional detail)
- Install signal at Oak Hill Road/SR 24 off-ramp
- Install neck down, crosswalk, and pedestrian/bicycle refuge on Oak Hill Road at pathway crossing
- Install signage and lighting at roadway crossing
- Study feasibility of travel lane reassignment along Oak Hill Road
- Widen sidewalk on east side of Oak Hill Road
Note: Further analysis of traffic operations required
BROWN AVENUE
- Connect pathway with bicycle and pedestrian facilities along Brown Avenue, Deer Hill Road and Mt. Diablo Boulevard and the Lafayette-Morage Trail
PRIVATE DRIVE (See Section 5.4.3 for additional detail)
- Install median along Private Drive
- Install crosswalk across Private Drive at pathway crossing
- Install signage and lighting at roadway crossing
- Construct sidewalk on Private Drive between pathway and Mt. Diablo Boulevard
FIRST STREET (Option 3 and 4) (See Section 5.6.2 for additional detail)
- Both options would:
· Signalize the First Street/SR 24 on-ramp
· Install crosswalk and staggered pedestrian/bicycle refuge island on First Street
· Install signage and lighting at roadway crossing
· Widen sidewalk on west side of First Street
- In addition to the above, Option 3 would convert the half-signal at the Plaza driveway to a full signal
Note: Further analysis of traffic operations required
HAPPY VALLEY ROAD (See Section 5.4.5 for additional detail)
- Construct a pedestrian/bicycle bridge across Happy Valley Road
- Connect bridge with BART at parking lot level and at top of the BART staircase and ramp
RISA ROAD (See Section 5.4.2 for additional detail)
- Install neck down and crosswalk on Risa Road
- Install signage and lighting at roadway crossing
- Widen sidewalk on west side of Risa Road between pathway and Mt. Diablo Boulevard
- Mark crosswalk on west leg of Mt. Diablo Boulevard/Risa Road intersection
- Install curb extension along Village Center
- Install bicycle loop detector on Risa Road
To Briones Regional Park
To Lafayette-Moraga Trail via Gazebo Pathway
To Lafayette Reservoir
Happy Valley Rd
Thompson Rd
Deer Hill Rd
Happy Valley Ln
Happy Valley Ct
Lois Ln
Glen Rd
Oak Hill Rd
Terrace Way
Mt Diablo Blvd
Dolores Dr
Plaza Way
Risa Rd
Songbird Ct
West Rd
Crescent Dr
Chestnut St
Walnut St
Brook St
School St
Moraga Rd
East St
1st St
First St
Second St
Orchard Hill Ct
Hall Ln
Stuart St
Sierra Vista Way
Serrano Ct
Oconner Dr
Village Center
Highland Rd
Robertson Rd
Boyer Cir
24
Legend
Preferred Alignment (Class I bikeway / ADA-compliant pathway)
Pathway Segment No.
Proposed Traffic Signal
EBMUD ROW
Continuation of Pathway Corridor
Parcel
Bicycle Facilities
Existing
Class I Bike Path
Class II Bike Lane
Class III Bike Route
Bicycle Boulevard
Sharrows
Proposed
Class I Bike Path
Class III Bike Route
Bicycle Boulevard
0 250 500 Feet
alta PLANNING + DESIGN

Figure 5-3: The Preferred Option: A Class I Bikeway/ADA-Accessible Pathway (Includes Roadway Crossing Improvements)

FIGURE 2-2 City of Lafayette Existing Bikeways

Sept. 2006

Existing Bikeways

- Bike Path (Class 1)
- Bike Lane (Class 2)
- Bike Route (Class 3)
- Neighboring Bikeways

Existing Facilities

- Bike Parking
- Toilet
- Water Fountain
- County Connection Transit
- BART
- City Boundaries
- Civic Uses
- Parks

0 0.25 0.5 0.75 1 Miles

N

alta PLANNING + DESIGN

Data: City of Lafayette, ESRI, Contra Costa Countywide Bicycle Plan, Field Work

Pleasant Hill Road between Rancho View and Reliez Valley has existing bike lanes in the southbound direction only.

To Moraga and St. Mary's College

Downtown Lafayette

0 330 660 990 1,320 Feet

FIGURE 5-2 City of Lafayette Proposed Bikeways

Sept. 2006

Proposed Bikeways
- Bike Path (Class 1)
- Bike Lane (Class 2)
- Bike Route (Class 3)
- Sharrows
- Bike Boulevard

Existing Bikeways
- Bike Path (Class 1)
- Bike Lane (Class 2)
- Bike Route (Class 3)
- Neighboring Bikeways

Existing Facilities
- Bike Parking
- Toilet
- Water Fountain

- County Connection Transit
- BART
- City Boundaries
- Civic Uses
- Parks

0 0.25 0.5 0.75 1 Miles

N

alta PLANNING + DESIGN

Data: City of Lafayette, ESRI, Contra Costa Countywide Bicycle Plan, Field Work

Proposed bike lanes on Taylor Blvd between Pleasant Hill Road and Withers will require multi-jurisdictional study. (Project #20A)

Proposed southbound bike lanes on Pleasant Hill Rd. between Taylor Blvd. and Rancho View Dr. will require lane narrowing. (Project #20A) Proposed northbound bike lanes in this section will require multi-jurisdictional study and road widening. (Project #20B)

Pleasant Hill Road between Rancho View and Reliez Valley has existing bike lanes in the southbound direction only. Multi-jurisdictional study and road widening needed for proposed northbound bike lanes. (Project #20B)

The method of crossing Pleasant Hill Road via the trail is to be determined.

To Moraga and St. Mary's College

Downtown Lafayette

Downtown Bypass Route

0 320 640 960 1,280 Feet

APPENDIX B

OAK HILL ROAD GAP SURVEY

City: Lafayette, CA
Location: Oak Hill Southbound at Oak Terrace Driveway
Date: 9/20/2022
Count Type: SB Vehicle Gap Count

5 Minute Time Interval - Gap between vehicles (seconds)

Start Time:	7:00	7:05	7:10	7:15	7:20	7:25	7:30	7:35	7:40	7:45	7:50	7:55	8:00	8:05	8:10	8:15	8:20	8:25	8:30	8:35	8:40	8:45	8:50	8:55
End Time:	7:05	7:10	7:15	7:20	7:25	7:30	7:35	7:40	7:45	7:50	7:55	8:00	8:05	8:10	8:15	8:20	8:25	8:30	8:35	8:40	8:45	8:50	8:55	9:00
	28	31	15	37	33	74	4	36	11	14	5	13	50	7	7	8	17	8	14	7	5	3	3	8
	4	53	31	2	6	1	11	2	4	17	12	2	1	8	1	9	44	13	6	17	3	2	2	3
	38	13	7	75	5	1	28	3	7	4	3	5	4	6	4	14	5	15	7	2	8	7	15	18
	19	2	5	14	2	12	30	13	22	6	7	6	3	6	3	2	6	2	22	10	6	5	6	13
	3	3	9	13	15	24	3	3	20	10	4	8	1	4	4	8	5	6	4	4	24	20	5	4
	6	16	7	4	48	6	2	5	8	5	5	7	4	3	3	23	9	8	7	1	8	5	7	9
	5	48	57	12	8	52	7	3	40	7	16	29	2	3	2	6	14	3	7	2	4	12	5	2
	18	5	30	9	24	22	5	5	15	5	5	17	2	7	3	5	12	4	2	9	10	4	5	2
	16	21	4	18	12	9	8	2	6	9	5	3	1	5	2	2	131	37	4	4	2	3	2	5
	12	12	21	19	20	5	11	8	23	9	3	1	3	17	5	11	2	8	7	2	3	10	9	6
	7	28	38	9	13	10	1	7	16	4	2	3	1	8	6	13	6	6	12	2	6	5	3	4
	3	19	9	48	3	4	10	2	4	7	5	2	3	8	4	3	6	3	6	10	3	5	11	10
	4	14	5	15	9	10	26	6	4	3	8	1	2	1	7	16	3	4	6	3	17	4	8	1
	10	48		6	9	13	12	13	2	9	3	2	1	1	5	5	8	6	9	2	2	5	5	5
	3			9	24	31	5	2	7	4	5	1	5	5	3	4	1	3	13	3	6	8	2	5
	22			7	45	1	4	8	6	7	5	2	3	3	2	14	3	4	3	2	6	1	1	3
	8			7	5	5	11	3	6	18	1	3	2	2	7	12	6	1	7	5	1	5	4	7
	4			4	8	6	7	22	4	7	4	3	5	1	7	8	8	27	10	13	6	2	9	3
	14			4	11		4	15	7	7	8	10	4	3	6	5	1	7	4	2	2	5	1	5
	27						27	13	15	9	3	4	3	5	5	9	5	9	1	3	3	8	5	4
	4						23	9	17	32	11	6	7	3	5	17	5	14	3	3	6	31	10	3
	16						9	3	5	5	8	5	4	5	4	19	1	2	5	6	2	5	2	2
	5						22	8	13	8	16	5	6	4	8	5	2	18	3	5	3	7	7	4
								8	5	12	16	8	4	9	6	1	8	6	2	4	4	4	3	3
								23	4	39	10	6	3	1	9	7	4	2	7	7	5	3	6	6
								7	5	5	10	4	5	7	7	4	7	6	5	7	2	3	7	23
								31	4	4	6	8	2	3	13	6	29	2	14	2	5	10	2	2
								5	4	5	5	25	4	8	1	5	14	8	11	10	4	4	19	10
								18	5	10	26	13	6	19	33	4	3	14	1	2	21	5	6	2
								24		11	5	3	5	3	1	4	1	1	4	7	6	5	6	10
								24		3	5	3	3	2	2	7	2	4	7	5	4	9	11	3
										3	6	1	2	10	2	5	5	5	20	7	3	3	17	9
										11	6	5	4	9	3	4	4	1	5	22	5	5	4	4
										3	2	2	2	14	1	5	2	7	5	5	6	5		3
											4	2	3	3	3	1	4	6	5	3	3	3		37
											1	2	3	6	4	3	2	4	9	3	1	1		17
											5	3	3	4	9	2	3	5	9	12	5	3		5
											4	2	5	2	9	28	3	4	4	2	9	7		4
											4	1	5	4	1		2	1	9	9	4	15		10
											7	2	3	3	2			5	2	9	6	6		4
											9	2	6	3	4			6	5	4	23	5		16
											5	3	5	4	3			2	4	3	4	6		1
											3	3	3	1	11			4	9	4	5	6		6
											3	2	8	2	5			4		3	3	5		4
											8	2	1	3	1					16	5	3		6
												5	4	7	8					16	6	5		7
												6	4	6	5					1	6	9		2
												2	5	3	6					5	5	9		1
												6	6	2	17					3				6
												23	7	5	6					5				
												5	6	2	36					9				
													15	3	15									
													32	7										
													1	14										
													2	2										
													2	9										
													2											
													1											
													2											
													2											
													3											
													5											
													2											
													1											
													3											
													4											
Total Number of Acceptable Gaps	12	11	8	12	14	10	13	16	11	15	13	10	4	12	11	15	11	12	13	13	8	11	9	13

Notes:
Shaded boxes represent acceptable gaps (gaps greater than 7.5 seconds)

Average Number of Acceptable Gaps per 5-minute Interval:	12
Total Number of Acceptable Gaps During the Peak Hour (7:55 AM-8:55 AM):	129
Average Acceptable Gap Length:	17.2

City: Lafayette, CA
Location: Oak Hill Southbound at Oak Terrace Driveway
Date: 9/20/2022
Count Type: SB Vehicle Gap Count

5 Minute Time Interval - Gap between vehicles (seconds)

Start Time:	4:00	4:05	4:10	4:15	4:20	4:25	4:30	4:35	4:40	4:45	4:50	4:55	5:00	5:05	5:10	5:15	5:20	5:25	5:30	5:35	5:40	5:45	5:50	5:55
End Time:	4:05	4:10	4:15	4:20	4:25	4:30	4:35	4:40	4:45	4:50	4:55	5:00	5:05	5:10	5:15	5:20	5:25	5:30	5:35	5:40	5:45	5:50	5:55	6:00
	3	6	4	6	20	38	10	5	12	4	11	5	5	6	6	16	11	19	9	4	3	7	10	9
	10	5	6	7	9	8	2	6	6	5	15	4	3	3	5	9	12	3	2	31	5	3	6	4
	15	2	2	12	24	7	16	24	10	4	3	5	4	3	3	10	4	3	12	2	6	6	1	4
	11	7	18	4	7	3	8	3	2	3	14	19	3	10	4	23	11	15	3	8	8	6	4	7
	4	5	4	2	7	5	3	12	6	5	9	3	11	1	18	18	5	5	2	5	15	5	6	4
	2	4	6	4	3	5	4	9	7	7	18	3	5	6	6	4	18	5	9	3	8	4	5	4
	3	4	9	4	19	5	5	11	4	7	5	14	2	3	36	14	15	6	9	4	4	3	5	11
	12	7	1	5	5	4	18	8	3	7	11	3	11	4	15	11	16	4	8	2	19	3	5	3
	3	5	5	3	5	11	2	11	1	10	11	14	7	4	21	10	5	2	6	7	3	10	5	2
	3	3	3	3	13	2	3	21	8	3	3	17	3	3	6	10	8	15	8	20	3	5	4	3
	2	9	38	3	2	5	7	7	4	3	5	2	3	17	2	5	2	13	12	13	6	12	6	2
	5	4	15	19	4	11	6	4	4	2	8	4	6	3	3	13	2	2	5	6	5	4	3	4
	3	9	7	4	8	6	2	3	6	5	12	3	5	6	3	2	8	11	4	5	3	10	4	3
	30	10	10	5	4	10	11	2	3	5	4	2	3	5	7	4	2	7	10	6	7	8	6	4
	18	2	1	5	2	4	14	11	10	7	4	2	1	30	2	3	12	25	14	3	5	4	7	3
	6	3	4	3	4	13	2	6	14	6	4	2	4	4	4	9	11	17	2	6	5	6	5	2
	16	2	7	6	6	6	1	5	5	3	7	6	3	7	5	4	7	4	13	7	9	4	10	8
	28	9	4	6	10	4	5	4	17	12	20	3	2	34	5	13	7	17	3	44	10	5	2	11
	3	4	2	4	3	9	7	4	4	3	11	11	3	11	4	6	10	1	4	11	1	3	5	4
	7	3	4	8	3	4	5	5	3	3	11	4	3	11	4	10	12	27	6	4	17	4	7	5
	5	4	5	3	6	9	4	9	4	4	2	5	4	4	5	2	26	2	3	10	6	7	16	2
	5	2	4	4	10	5	4	5	3	2	15	4	6	10	10	7	7	4	4	11	9	4	5	6
	2	5	6	4	7	2	11	3	7	5	21	6	8	5	22	8	8	3	4	6	15	5	6	4
	6	10	5	7	6	12	6	4	6	4	5	7	3	11	3	8	3	4	8	8	14	3	4	3
	10	5	9	16	16	3	4	9	20	5	4	2	2	3	9	14	3	8	4	5	3	4	8	3
	6	3	4	6	4	4	5	19	13	3	1	3	3	2	3	9	4	27	5	2	8	4	6	5
	7	13	4	2	18	7	4	5	12	3	10	8	8	39	15	2	4	24	5	4	5	6	5	3
	6	2	3	17	4	6	3	2	22	2	5	19	2	7	9	4	7	32	9	7	3	3	7	3
	6	2	5	14	10	17	15	3	3	9	13	6	7	11	11	9	5		4	6	5	9	8	5
	8	4	12	3	3	3	4	4	3	3	4	6	4	10	5	4	5		8	3	6	2	4	5
	4	6	5	21	4	4	2	17	17	3	13	2	15	10	7	7	11		23	23	9	2	12	6
	3	3	17	9	6	6	7	14	19	6	3	2	4	9	4	9	8		3	18	4	4	4	3
	8	6	6	5	11	5	2	3	3	2	2	5	10	6	6	7	7		2	6	4	2	5	6
	18	7	11	5	8	6	3	3	4	8	4	3	3	3	7	10	3		7		3	3	8	7
	6	12	5	5	4	8	14	4	5	21	15	3	14		3	3	18		9		2	7	2	6
	5	11	11	14	3	7	13	7	5	22		5	1		3				10		13	2	9	2
	2	12	7	5	13	7	4	6	10	3		6	6		3				3		2	2	4	6
	7	4	4	6		7	14	9	5	3		5	5		4				4		2	2	2	2
	5	8	19	10		9	1	2	4	16		4	5		9				9		5	4	3	2
	4	11	5	4			3	9	7	5		6	14						3		19	4	8	4
	4	2		3			3			4		6	34						7		6	2	7	7
	7	3		6			5			5		11	1						8		9	4	8	2
	5	4		6			1			5		3							4			10	3	5
	3	27					7			6		3							8			6	8	4
	9	3					4			6		4							12			7	5	2
	4	7					7			7												4	8	3
	9	22					5			3												5	9	5
	10						16			4												8	2	6
	2						4			5												2	8	1
	3																					4	4	4
	2																					4	6	7
	9																					10	3	4
	4																					10		9
	3																					2		12
	4																					4		7
	2																					20		6
	5																					3		8
	10																					5		6
	5																							2
	3																							3
	13																							2
	2																							2
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	4																							
	8																							
	11																							
	2																							
	3																							
	4																							
	27																							
	3																							
	7																							
	22																							
Total Number of Acceptable Gaps	25	13	11	10	14	12	12	15	13	7	18	8	9	13	11	20	17	13	20	11	15	10	14	7

Notes:
Shaded boxes represent acceptable gaps (gaps greater than 7.5 seconds)

Average Number of Acceptable Gaps per 5-minute Interval:	13
Total Number of Acceptable Gaps During the Peak Hour (4:15 pm-5:15 pm):	142
Average Acceptable Gap Length:	13.4